

gtagacctct tctcttaaga tgcattaag gaaggcattg ttcacatcca actgctgtat 120  
 tggcagtgta ttagtgacag caagagtaag aagaagtttc agtgataggg ttgataactg 180  
 gtgagaatgt ttctgtataa tcagtaccaa actgctgatg aaagcctttt gccactagtc 240  
 tagcttggta cttatttaca gtaccatcat aattttcttt gacccgaaac aaccacttgc 300  
 aaccaataty attactatca aggtcccatg tattgttttt aatcaaggca tcataactag 360  
 ttgcctatgc agccaaccat gtagtatgc taaggcttgc ttatagata tgggttccaa 420  
 atgagtcaaa a 431

<210> 16634  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16634  
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 caattgtcac atcttttcat ttggttcttg aatggctatc aaaggcctat atatatgtga 120  
 cttgagacac gaatatgta agagttttta agaacaaaaa ggtcttatcc tcttaaaaag 180  
 caaaaatcgta ttatctcttt acaaattcct tggcgcaaaa cacttgtgat tcaataagga 240  
 attatttgag tgctcaaatt gttcaatcta tctctttcaa gagagatttc ttcttctttt 300  
 cttcttttatt ctgaaaaggg attaagagac cgagggtctc ttgttgtgaa agaattctaa 360  
 acacaaagga aggattgtcc ttgtgtgtat aaaacttgta aaaggaatat ac 412

<210> 16635  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 16635  
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 ccttgaggct tcaattgagct tgcggttaatt gacgcattatt ctcacaacca acgataaaact 120  
 tggttgggat taggacatct ttgtcattgc aaatgactac cgtacccctt gtattcggca 180  
 ccacctggac tacgattaca taaccactgt gggaaatggg gtacatacgc ccaacactaa 240  
 aaagctgaag cactgttttc ctcacctctt acttcattga tgaaggaagc acttgtatga 300

ggctggctga ctggtctat

<210> 16636  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 16636  
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 catttaatga ttgaaaacc agattagtgt ctgctccagt aattatagca ccaaattggg 180  
 ggcaagaatt tgagctgatg tgtgatgcaa gtgattatgc cataggtgca gtgcttggac 240  
 aaaggaaggg aaaaaatttt aatgctatat actacgcaa caaggttcta aatgatgcac 300  
 aatgaacta ttctaccaca gaaaaagaaa tgctggtaat tgtttatgca cttgaaaagt 360  
 tcagatctta ttggtaggc tcaagagtta tcctctacac tgatcacgca gctattaaat 420  
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<210> 16637  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 16637  
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 ggcgtcaata tgaagagaga acaatttaga gagtgatcga agactttcaa atggatttcc 120  
 actgaattta ttcatagaga gatcgagata tcttaatgat gaaagttttc caaatgatct 180  
 aggaagagca ccaccaattg agttgttggg aaaaagtaac gtgtcaatat ttttaaatgc 240  
 cccaatatga tctgtcagat tgctgaaag tctggaactc tgaactgcaa gtcttgtgag 300  
 tccatgggaa atacaaggag cagcaatctc taaaagtcca ttaacctgtt ggttgagttt 360  
 gagatatgat aaatctatca ccttaagtt gcagagatta cccaaagaag ttggaatgtt 420  
 tcttcaagt tgattatgtg a 441

<210> 16638  
 <211> 333  
 <212> DNA

<213> Glycine max

<400> 16638

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gattctaatg caatctacag tcatgtctt ttgggtgtt gggctctcca ataccattgc 120  
tccatgtggc ataactcttt tcatgaagaa tggcacaacc acttgcaactt cagcttactt 180  
ggaaacaatg ttaactatga attaaataac aatctctgtt ggcctagctg aaaaatctct 240  
tttgacaact ttttgctatg atagattggt actctttgct tataaagatt ggaattctca 300  
taagcttgaa ccttcagttc ctccaattca tggagttgaa gctctctgtg ttcaccattt 360  
gcattcgagt cgaagttcac aaattataat gcc 393

<210> 16639

<211> 379

<212> DNA

<213> Glycine max

<400> 16639

agctttttggc aaatgaagaa gaagaagaaa ttcaagagga tgttcaaaga gattcaaagg 60  
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cttcaagtct ggtcaagaaa accattacaa gagttataac ctttagaaaa cttttggaag 180  
agttacatct tttgattttt attcaaaaact tatcattggt aatcgattac caaatcattg 240  
taatcgatta tacaaagcat ttttgtaaaa cgatgtgact cttcacattt gaatttgaat 300  
ttcaacgttc aaacacactg gtaatcgatt accaatatat tgcaatcgat tacaccatta 360  
tgaaattgaa tggaacatt 379

<210> 16640

<211> 251

<212> DNA

<213> Glycine max

<400> 16640

tagcttcata gaagtgtatg tggctcgaaa catagcctcg atgcactggt acttgacgtt 60  
ataatcctta atgatcaact caggattcaa cagatgtgac atggaccate tctgcgcggc 120  
taagatatat actaatagct atgcccctct tctcgagtat ggggatgaca tgaatatcac 180

aggatctcgt atggcacaaa tgcacaggtt gaagcaccaa ttggcagaaa actttgatat 240  
gatagatctt g 251

<210> 16641  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 16641  
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gtaacatata gagaagctcg aaattgaatg ttgaacctct gagccaattc aaacgacaat 120  
aacttttttc acggatgtct gattgagtcg cgtaacatat tgagacgctc gaaattgaat 180  
gttgaacctc tgagcaaat caaacgacaa taacttttta ctggatgtc tgattgagtc 240  
cbgtaacata tcgagacgct cgaaattgaa tgttgaagct ctgagccaat acaaacgacc 300  
ataacttttt actcggatgt ctgattgagt ccgtaacat atcgagacgc tcgaaattga 360  
atgttgaagc tctgagccaa tacaacgac cata 394

<210> 16642  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 16642  
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aatttgtacc tctcgcaaga gtctgtggtt tatgtctctc tgctgaccac catacagacc 120  
tttgcccttc tatgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaaca 180  
tttacaatag actttctcat tctcaatagc aaaatcaacc acaacaaaac aattatggcc 240  
tctccagcaa cagatacaat cccggatgga ggaatcacc taatctcata tggcttagcc 300  
ctcaacaaca acaacaaca cctgtctctt ccttccaaaa tgttgttagc ccaagcagac 360  
catacattcc tccaccaatc caacaacagc aacat 395

<210> 16643  
<211> 418  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 16643

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 tggttcttga atggctatca aaggcctaca tatatgtgac ttgagacacg aatttgctaa 120  
 gaggttttca gaacaaaaag gtcttatcct ctatataaagc aaaatcgttt tctctcttta 180  
 caaatctctt ggttaaaataa ctgttgatc cctaaaggaat tatttgagtg ctgaaatigt 240  
 tcaatctatc tctttcaaga gagatttctt cttttctctt tcttcattct gaaaagggat 300  
 taagagaccg agggctctctt gttgtgaaag aattctaaac acaaaggaag ggttgctctt 360  
 gtgtgttttag aacttgtaaa aggaatttac aagatagtgg aactctcaag cgggttgc 418

<210> 16644  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 16644  
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 agaaacaaaa ttgaagaact gaagtagctc gctcagcacg tcttaggcgc tttagcgaac 120  
 acagtggctt agcgggcaac agaagcttag cgtcaagaag tatggagaag tctggaacat 180  
 gaaggtctgc ttaacctgca gctcgtttct atgtttggga tgatccccac ttattcaaga 240  
 ttggagcgga taatctattg agaagatgtg ttaccatgga agaagctaga agtatattat 300  
 ggcattgtca caattctcct tatggcagat actacagtgg ggataggaca actgctaagg 360  
 tgcataaagc tgaatttttt ttgccttcta tcttcaagga tg 402

<210> 16645  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 16645  
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 cggaggaaga caatgcacaa aacttatctt tctcttctct gacaaaatat ggaagctat 120  
 gtggaagtaa ataactcttc catcaaacct tggatgcaac tgggatcgtt tgcctatctc 180  
 agctatatct tgaatgggtat tgaagccata ctctgtctag cattgaatgt taaggaacgt 240

tccaatcaca ctgtcacaaa cattactgtg cacatgcata acatcaatat aatgttgaac 300  
 gtaaatatca caccataaag gaagatcaaa gataatggac ctcttcttac atatgcagct 360  
 attactttca tccctctttt gagtctagcc aaatacaata atcacgtgtg gaaccogctc 420

<210> 16646  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 16646

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 gactctgcaa ttggctcatt aaccatatca ccaccaccag catactctct ttctcccaac 120  
 ctatctctct ttctctcttg cactatccct aatttacacc accacttacc ccacttgcca 180  
 atctgttca atctcttttg gccatcccca tatgcagcat cacaagcacc atccttagaa 240  
 gcagactcca ttacactata agatagaaca ctattggacy ttgcaaatt cgcacccctc 300  
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 accttagcat tagatatcac tctcaattca tcaacatccc ccatt 405

<210> 16647  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 16647

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 tcttgatga atcttcgata gaaacctgta tgtccaagaa aacttcttat accttggca 120  
 tttactgggt gtgtgtaact ctcaatgaca tcaatttttg ctttttccac cttaatgcct 180  
 cagggtgaaa ttgtgtggcc caacactatc ccttctcaaa ccctgaagtg acacttctcc 240  
 caattcagca ccagatttat ctcaacagat ctccatagca ccggtcttag attcatcaag 300  
 caacatcat aggaaggccc acaaaactgag aagtcacca tgaagaette tatgacttc 360  
 tctaacatgt caacaaagat ggctagcttg cacttttggc 400

<210> 16648  
 <211> 396

<212> DNA  
 <213> Glycine max

<400> 16648

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 ttaggtatct tttgagaa tgggttatt ttttggtaa ttttatttt ttttatttt 120  
 ttttatttt ttttatttt ttttatttt ttttatttt ttttatttt ttttatttt 180  
 gttacaaatcc aaaaataatt gataaacaaa atttatattga attcaagta ttttaaacaca 240  
 aagtatatca aaggaaaatg aaaaaaaaaat gcataaatatt aaaaaatata tggattagag 300  
 atgaattata caaatatagc caaataaaaa tatttaaatt atttgaaaat gtctttacaa 360  
 aacattattg tttttgaaag tattaatctc gttgca 396

<210> 16649  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 16649

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 ttcagcatct catcaaacaa ttccttagcc attggcaagt tccccaaatt gcaaaaatcct 120  
 ctaacaagaa ttgtaaaagt aaatacatca ggatcaggcc catgtttgat catttcatct 180  
 ttttagccgca tggcaacatc caagtccecc attctgcaaa gaccatcgat aagcgtatta 240  
 taggtcacaa caatgggaac aagacccttg aatcttaact cagcaaataa gagaaaagcc 300  
 tccccatgtt ttcaccaatc ggtgtaacca taaatcagag tgttatacga aaccaaatcc 360  
 ggcatcagat tcgggttcac cataacatcc agca 394

<210> 16650  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 16650

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 gaggtcggta atatatcgag acgtcggaaa ttgaatgttg aagctctcag ccaatatata 120

cgacaatgac cttttactcg gatgtttgat tgagtcocgt aacatatega gacactcgaa 180  
 attgaatggt gaacctctgt gcatattcaa acgacaataa atttttactc agatgtctga 240  
 ttgagtcocg taacttatcg agacgtctga aattgaacgt tgaagctctg agccaataca 300  
 aagcaacata aattttatc ttgagtcctg atgaggtctc gaaatatac agaggtctcg 360  
 aaattgaatg ttgaacctc 379

<210> 16651  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16651

tcaaatctca attgtgagcg tctcgatata ttacggggact caatcagaca tcagagaaaa 60  
 aagttattgt cgtttgaatt ggttcagagc ttcaaatctc aatttcagag atctcgatat 120  
 gttacggggac tcaatcagac atccgagaaa aaagttattg tcttttgaat tagctcagaa 180  
 gttcaacatt caatttcagag cgtctcgata tgttacggga ctcaatcata catccgagta 240  
 aaaagttatt gtctgttgaa ttgctaaga ggttcaacat tcaatttcga gcgtctcgat 300  
 atgttacggg gctcaatcag acatccgagt aaaaatttat tctcgtttga atttgcctan 360  
 agatccaaca ttcaatttcg agcgtctcga tatgttacgg gactcaatca 410

<210> 16652  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16652

tagggctgaa aggtttgttg aaatacgcga tagggtygcc atattgagaa agaactgcac 60  
 ccattccgac gctggaggcg tccgtctcra ccgtgaatgg gagctgaaaa nttagtaagg 120  
 tgagtaccgg aactgaagac agagctgctt taaggtgttc aaaagctgat tctgcttggg 180  
 gtgttcaact aacaggtctt ttggtgtga gctttaccaa gggagcagca atggtggcat 240  
 atcccttat gaaacgcga tagaatccgg caagtcctag catccacac acaaccttg 300  
 aagattgagg tatccccc ttgaagatgg cctctacatt caaggtacc ggtttactc 360

cctttcttoga gaccatatgg cctaaatatt caacctgcaa ctgcgcgaat aagcattttg 420  
ataat 425

<210> 16653  
<211> 394  
<212> DNA  
<213> Glycine max

<214> unsure at all n locations  
<400> 16653

agctttcaga aaattcaaac gacaataact tttttcttca gatgtctgat tgagaccagt 40  
attatatoga gaggatogaa attgaattct gaagctctga gctaattcaa acgacaataa 100  
tgaattgctc ggatgtctga ttgagtcctg taatacatcg agacgctoga aattgaatgc 180  
tgaagctctc agctaattca aacgacaata actttttact cggatgtctg attgagtcct 240  
gtaaaatata gagaagctca aaattgaatg tgaagctctc gagcaaatc aaacgacaat 300  
aaactttnttc ctacagatgtc tgattgagac tctgaatata togagaagat cgaaattgaa 360  
ttctgaagct ctgagctaatt tcaaacgaca ataa 394

<210> 16654  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 16654

tcagaattca atttcgagcg tctcaataga ttacgggact ctttcagttc tccgagcaaa 40  
acgttattgt cgtttggatt agttcaaagc ttcagaattc aatttcgata gtctcgatat 120  
attacgggtc tcaatcagac atctgaggaa aaaagttatt gtcgtttgaa tttgctgaga 180  
gttcaacatt caattttgag cgtctcgatg tattacggga ctttaatcaga catccgagtt 240  
aaaagctatt ggtgtttgaa ttgctcgaga gtttcaacat tcaatttcga gcgtctcgat 300  
attataccgg actcaatcag acatccgagt aaaaagatat tctcgtttga atatgctgag 360  
agcttcaaca tcaatttcg agcgtctoga tgtattacag gactcaatca gacatccgag 420  
caaat 425

<210> 16655  
<211> 423

<212> DNA  
 <213> Glycine max  
 <400> 16655  
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 tttctacaaa ttgcacacta agaaactcgt cactagtcga gaggctgag ttgagagta 120  
 tcttcttggg attggcgag agcaaaaggt gaggagaggt gttcttca ac aggtctcact 180  
 tctcaagaa gaagctgagg aagaaaaacc aggtgaacca ccttcgcttc caccacaaca 240  
 acaagatcaa gaactatcat caccagagtc tactccaaga cgagtaagat ctttgggtgga 300  
 tatatatgaa acctgcaact tggccatact caaacctgga agctttgaag aagcgctcaa 360  
 gtaggaagta tgggttaagg caatggaaga agagatatag atgacgcaga aaaacaacac 420  
 atg 423

<210> 16656  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <400> 16656  
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 gcaaaagtcg tacctcatgc atatatttat ctccatccat attcaacaaa tcatggcaca 120  
 tagcatcata ggtccattca tgaatgacag gtgcaatctg tgggtgcagat tcaatacagt 180  
 catcaaaaatt gagagctata aaaggagaca ttcataattca tagtgaagag acatttttaa 240  
 cctgatctat ggatctgtca acaatgagca tatcacaagt ttcattatgt ggaaaaccgg 300  
 gaatggtaga ttatatttta gaaaccatgt cccaaacagc attagcaagc ttggtaggaa 360  
 ctaattcacc aaccgctgct gctgtagact 390

<210> 16657  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <400> 16657  
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 ctctatttat gaatccattc agaaaggaac tattgacatc catctaatag agcttgaggt 120

ctttatgtgt tgcataaggct aaaagtatta tgatggettc aagtcttgc attgggtgaa 180  
 aggtttcttt atagtcaatt ccttctgtt gactataccc ttgagtaact agtctagcct 240  
 tgttttttac taattctctt tcttcattaa gcttggtttt gaacacccat ttgggttcbaa 300  
 ttgttaacg attcttagga gggaaacaag attccaaacg tttctctag tgaattggt 360  
 tttttctct tccatagaag tcacccaaga attctatgc aat 400

<110> 16658  
 <111> 404  
 <112> DNA  
 <113> Glycine max

<400> 16658  
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 taaaaagtta ttgtcgtttg aatttgcctc gagcatcaac attcaatttc gagcgtctcg 120  
 atatattacg ggaactcaat aaacatccga gtaaaaagtt attgtcgttt gaatttgcct 180  
 agaggggtcaa cattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcgtt tgaattggct gagagcttca acattcaatt tcgagcgtct 300  
 cgatatatga cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360  
 tgagagcttc aacattcaat ttcgagcgtc tcgatatatg acgg 404

<210> 16659  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16659

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 tacttggatg tctgattgag tctgtccta tatctagatg ctcgaaattg aatgttgatc 180  
 atctaagtaa attcaaacga caatatcttt ttaactggat gtctgattga gtcccgtcat 240  
 atatcgacac gctcgaaatt gaattgttga tctctgagcc aattcaaacg acaataactt 300  
 ttaactcgaa tgtctgattg agtcccgcca catatctaga cgttcgaaat tgaattgtga 360

tgctctgagc aaattttaaac gacaatatct ttttactcag atgtctgatt gagtcccgta 420  
a 421

<210> 16660  
<211> 367  
<212> DNA  
<213> Glycine max

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aaggttgaga atggagaatt gcacaaagca atcactacgc atagctccaa actcgaaggt 120  
ggajggacac tgaacgaaaa cgcaattcat gggctccgaa aaaggggtga gaatggagaa 180  
tggcactaag caatcactac gcctggctcc acactcgaag gtggaggaca catgaaagaa 240  
aacgcatttc atggggctcc gaaaaaggtt gagaatggag aattgcacta agaaatcact 300  
aagcatagct tcaaaactcga aggtggagga cacatgaacg acaattcatt catggggctc 360  
cgaaaaaa 367

<210> 16661  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 16661  
aatccatttt gctatccgac ttttaataaa taataataat aataacctaa aggggttatat 60  
taacatttac atttatataa taaaataatc tggtaggctt taaaatattt ttggaatgac 120  
ttaaggggta acatttttaa ctaattatac ttttataaaa tcattaaact aattttatttc 180  
ctaaaaaaag tgtgggtatga ctgactgga cgtaatctgt gtataaacta ttatttacat 240  
tataataaaa aaattatcct ttatatgatt ttgggtggtaa gtaattaaat tacttatcat 300  
atattatttg gaatgagatt aaagtataaa aaatgggtaca tgcatatatt atttatttaa 360  
taattatata tectattaga atttccattc cttttctata tct 403

<210> 16662  
<211> 446  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 16662

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 aatgatgcaa agcagtcaga gatgaagtat acaagctcct caaagtcac ttcattagag 120  
 atttagatt ttgcacagg ctgcacatt tcttcaggtt caaaagucc aatgycaaat 180  
 ttggaatgta caacgactac atcgatctga atggggtggt tctcaaggat acataatga 240  
 tccccaatat caacaagcta gtcaatggag tggttccaag ttctaagctt cctagagcgc 300  
 tctatggat acaactagat ccggatgcct gctcaagaag aggagaaaaat gacattcctc 360  
 attgaagatg ccaactnttg ctacaaggcc atgccttttg ccttaaaaatg gaggcgcac 420  
 atactagaga tgggtgggtca gatctt 446

<110> 16663  
 <111> 346  
 <112> DNA  
 <113> Glycine max

<400> 16663  
 aatcaaccac agcagaacaa ttatgaacctc tccagcaaca gatacaacct tggatggagg 60  
 aatcaacctc acctcagatg gtccaacctt caacaaccac aacagcagcc tgcctctctc 120  
 tttcaaaatg ttgttggccc aagcagacca tacattcctc caccaatcca acaacaacaa 180  
 caaccccaga aacaaccaac agttgagggc cctccacaac cttccctcga agaacttggt 240  
 aagcaaatga ctatgcagaa catgcagttt cagcaagaga ccagagcctc cattcagagc 300  
 ttaaccaatc agatgggaca aatggctacc caattgaatc aacaaa 346

<110> 16664  
 <111> 446  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 16664

agcttatgct gtaagaagta agatgtgtgc ttgagatgtg tttaaacctt atctcaacag 60  
 gaaagcttga tgaagttagg atgatatacc agtccggggt tggtagatgg aagcttagta 120  
 gaggaagcat gctcattgct caaggtaaga aaggaaggctc ctgtacatc atgcaggaa 180

agatatgcaa atggaagatg aatgtttgctc aagatacaac caaagaatta tgacacaaga 240  
gattgngtca catgagtgag aaaggtttgg agtttctaac anaggatcac tgtccaaaca 300  
taaagggcca ggcacttgaa tcttgogaag actgtcttgc angtaaaaag tgc aaagtgt 360  
tttgc aaag atgttgatgag gctagaagga gaaaaaaatc ctgagatcttg tccattcaaa 420  
tacttcttca aatcttcaaa agtctc 480

<210> 16665  
<211> 431  
<212> DNA  
<213> Glycine max

<230> unsure at all n locations  
<400> 16665

atcttttata atatgaaatt gtctgtaagt catttgagaa ttnttggttg tacaacatat 60  
gcattagctg atctatggac taagttggat gataaatcta tcaaatgtgt atttattggc 120  
tatgtacttc agtcaaaaggc atacagactg tataacccac taactggcaa gataattgtc 180  
agtacaaatg ttgtatttga tgaagatgca ggctgggttt gggaggaatg tgaaatcagt 240  
caaagtgttc agcagaaatc agtcaatttt gatggtttag aggaggtctc anatgtgcc 300  
cataatgata acactccaag cctccttca atgccatcaa gccagggatc attaactcct 360  
tcaagccagg tatcatctag ctcatcaagt gantttgctc caaggagata caaatctttg 420  
gcagacttgt a 480

<210> 16665  
<211> 421  
<212> DNA  
<213> Glycine max

<230> unsure at all n locations  
<400> 16665

tgtttatttt gatgatgcca aagactcaag tcaagaatca agattgaagc aaatttcaag 60  
aatcaaaaggg tcatccaatc aagaatcaag attcaagaga agactcaaga tatgtaagaa 120  
cctcaagaaa aacatcaaga taagtataaa aagaattttt caaaagaaaag attgaatgac 180  
acaattcttc caaaataatt ttccaagaa aaatctttta ccagagtttt tactctctgg 240  
taattgatta ccatcagta atcgattacc agaagtcaca aacaatttta taactgtttt 300

aaaaagtagt aatcgattac catgggcatg taaccgatta ccaatgttnt tgaacgttga 360  
 atttcnato tcaagagtca taacttgtga canaatattt tcaaaaatagt gtaatcgact 420  
 a 480

<210> 16667  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16667

agttgttgtt attgnttct tctcttctt ctctggcagt gcaaattggat tggattatgg 60  
 aactgttggg gagcaatttg gaagccaagt ccaaaaattta caaggacctt gctttgagtt 120  
 atattttctt gatgaacaat gggaggtaca ttgttcagaa gacaaagata gtgaattggg 180  
 aacctctctt ggagaagaat ggatcagaan acacgttgca aagtttagga attccatgtg 240  
 caatatcana gaagctcgtg gaataagcta ttannggatt ctgaagtggg tagtaatggg 300  
 tcaatgcccc atattaactt tgcaaagtca atgaaagaga aaactcagtc gttaacaca 359

<210> 16668  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16668

tctcttttct gthggctgan nattatcatg cagacttttc tgatgatgac cgatgaacaa 60  
 ttatggatca acttgaaact tatgtgcttc gagtgagaag aaatgcttct ttttccactt 120  
 gtgaagatgt taaaagtgtg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180  
 catttggtta taaacttatt gagctagctt tgatattgcc ggtgtcgaca gcacccgttg 240  
 aaagagcctt ttcagcaatg aagatgatca agtctagatt ggcgaataag atcaacgat 299

<210> 16669  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16669

gtgctctcttc atgtctggaa tatgaatgta gcatatagat tcaaagaactc ttagatgctt 60  
 tgcctgatggc ttcttcccggt tccaagcttc aattggaatc ttgtctotta cagaacttaat 120  
 tggacatatg ttgagtatgt aaacagcagt gtagacttgt tcaatccaaa atgtgttaag 180  
 gagtcccttc tcttgaaca tcgactctaac tatttccata actgtgcgat tcttctctc 240  
 ggaacttcca ttctgttgag gagaataatgc gactataagt tctctgctta tgccttctc 300  
 ctcacaaaaat atttcaaaact cgcgagaggt gtactctttg ccgcgatcac ttcttagtac 360  
 ttttatctaa ttctcacttt gattttca 383

<210> 16670  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<400> 16670

tttcttttag aagaagatac acacatgttt tgccatgcc aatcagcaa ccttgatcat 60  
 accattaaga tctactagca tgcttgagcc ctttatatcc ctgtaggatt ggacacatta 120  
 ggttcagata cttggaacta gaaataataa tgtatattat catttgttac atattaacac 180  
 ctgtgcacgc gatctcttgc atgcatgtag gctatagcat gaagaatctg tctggtgtta 240  
 catttcgcaa gagatgtctt gaaagggcca tatacctgat gcaaattgcg aa 292

<210> 16671  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 16671

agcttgatat ctacatttgt gtgaaaagtt atgagcattt gaatttctca agagcttcca 60  
 ttgttcaatt tccagcatct cgatatatta taagcctgaa tcggacattc gtgtgaaaag 120  
 ttatgacctt ttgaatatct gaagagggtc cgttgttcaa ttctgagcct ctgcacatat 180  
 tatacgcctg aatcgaacat ccgtgtgaaa agttatgacc atctgaatct gcaagagttt 240  
 ccgatggtta atttcgagcg tctcgatata ttataagcct gaaacggaca ttcttataaa 300  
 aagttatgac catttgaatt tctcaagagc ttccggtgat caatttcgag cctctctaca 360  
 tattatgcgc ccgaatctga cat 383

<210> 16672  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16672

```

ttctagagat ccaggttggg tggagagata agtctctgnt ttgctgatt aaagcattg 60
atttacttgg acttgagcgc caatgaatac cttggagaag gtatgtcaat tctttcttct 120
cttgagacaa tgacttctct gactacctt aacttttttc atactggatt ctggggggaag 180
aatctctctc aaaatgggaa tctctcaaat ttggtgtatc ttgacctgag ttcaaagtgt 240
ggcaacggaa caataccttc tcagatgggg aatctctctc agcttcgata tcttgacttg 300
agcgccaata tattttcttg agaaggcatg tcaattctct cttttctctg gacaatgact 360
tcttgactc acctcgacct ctctggtact ggattcatgg ggaagattcc atctcagatt 420
tggaatctc 480
  
```

<210> 16673  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16673

```

tctttctctg tcactttttt aaatgaagga ccagaaaaca tgccacccca ttgtggaaaa 60
gagattaaac atattggcag ggtgcatatt atgatcatgg ctcccattag agtgattcct 120
ctttcttttg aaaacttgga tcttttgaag aaaattaact gggtcacaac tgcaccacac 180
ttgcctctct cctctgtcat tccagatatg acccctaatt acctgaanat atatgtgtat 240
gctaattgat naingtagaa ttaatcacaa aagaattatt ggcatagaag ctatgcactn 300
tggttatatat ct 312
  
```

<210> 16674  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 16674

ccaaaagtcct attaacaact tccgtttgac catcggtttg tgggtgacaa gtggttgaaa 50  
 ataacaattt aatgcccaac ttgctccaca aagtcctcca aaaatgggtt aggaacttaa 120  
 agtccctatc actaacaatg ctctttggca aacctggag tctcacaatc tctttgaaaa 180  
 acaaatcagc cacatgggaa gcctcctcaa tttcttaca tgggataaaa ttgggattt 240  
 agaaaacc accaacaacc acaaaaatgg aatctcacc atggtttgt ttgggtagcc 300  
 caaaacaaaa 310

<J10> 16675  
 <J11> 426  
 <J12> DNA  
 <J13> Glycine max

<400> 16675  
 tatgttgcaa atattacaa tagactcct caactcacc ttttaaattt atcacagcag 60  
 agcaattatg acctctccag caacagatac aatctggat ggaggaatca cctaacctc 120  
 agatggacca gccctcagca acaacaacag cagctgctc ctctcttcca aaatgctgct 180  
 ggcccaagca gaccatacat tctccacca atccagcaac agcaacaacc ccagaaacag 240  
 ccaacagttg agggccctcc acaaccttcc ctccaagaac ttgtgaggca aatgactatg 300  
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360  
 ggacaattgg ctaccaatt gaatcaaaa cagtcaccaga attctgacaa gctgccttct 420  
 caagct 426

<J10> 16676  
 <J11> 437  
 <J12> DNA  
 <J13> Glycine max

<400> 16676  
 tcttaagaa gattcctaaa gaagctagag cttagctaca catacctctc taatagctaa 60  
 gctaacctcc ttgagatgag aagctagaac ttaactaac acctttata atagctaagg 120  
 tcaaccccat gacaaaagaa aacatgaaaa tacaaaaaaa agtcttact acaaaagacta 180  
 ctcaaaaatgc ccgaaatac aaggctaaaa ccttatacta ctagaatggc caaaatataa 240  
 ggcccaaacg aaggaaaaac ctattctaatt atttacaag ataagcgggc tctactttag 300

cccatggggt cgaaatctac cctaaggctc atgagaaccc tagggcctac ccttggatct 360  
 ttageccaat ctacttggag tcttctaccc aatgcccttg cgggatagga tggcatcaca 420  
 aagcatcaaa attcaat 437

<210> 16677  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16677

ccatggaatt ntatgcgatg acatgggact tggaaagaca cttaagcat cagctattgt 60  
 ggcctctgat atagctgagc atcgaacttc aattgggaat gaggatcttc tgcacatctt 120  
 aattatttgc ccacaaactc tagttgggca ctgggccttt gagatagaaa agtatattga 180  
 tgtttctggt atctctagtc ttaatatgt tggttctgct caagagcgaa tgcttctctg 240  
 ggatcatttt tgcaagcata atgtcatcat aacgcatat gacgttgtcc gtaagatat 300  
 tgattttcta tgacagctgt tgtggaatca ctgcatctta gatgaagggc atataatcaa 360  
 gaatgccaaag tctaaagtta cacttgcttg taaacagttg aaagcccaac accgcttgat 420  
 attgagtggg acacctata 439

<210> 16678  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<400> 16678

gtggatgaat catcccaacc ttacatgggc gatatcttca caactagtag caacaacaac 60  
 cttattttca aaatgttgcg ggcccaagta taccatacgt ttcttcacca atgtagctgc 120  
 aacaucagca acagccctaa aaacagttaa cagtcgaggc ttctccgcaa ccttcccttg 180  
 agaactttga ggcaaatgat atgcaaaaca tgc 213

<210> 16679  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16679

```

gattgatgca acattnggag agattaatga aacaacgata tgattcgctc catgatttgt 60
tggatcaaat ggagaataga gatcataatg aagaagaaaag gaggaggaga gggaatgatg 120
tggatgatga acaaaccca attcagggtg ttaaaactca ccttctctcc tttaaaggaa 180
aaaacatctt tggagcttat ttcgaatcgg aga caaat aaacatctt tttatctctt 240
ttaaattatg ggaggacaa aaggtgaagg tggcgccac ggagttttcc gactatgctc 300
ttgtgtgggtg gaacaagtta cataatgaga gagcaagaaa tgaagagcca atgggttgata 360
catgtgcaga gatgataagg atcatgatga agcgggtatgt ggcggctagt taacttaaggg 420
atttgaaatt caagct                                     486
  
```

<210> 16680  
 <211> 312  
 <212> DNA  
 <213> Glycine max

```

<400> 16680
ggacactttt agcaactcct tacatgaata caataatcat tcttcctcac gagcaaaaaa 60
tatccagccc ttaaaatctt tcaggccatg gcattgccat tggcataggg gccaaaggaa 120
ccttcctgca ccttccttag tatttgcctc acttcactta catccacgca ccggagtaac 180
accatatcat gytctctttt gtatagcacg tccccattca aaaaaaagtt aactgccaac 240
ctccgtagtg tctctctgtc attctcaaag gctcatata ggtactcctt atctttgata 300
tctctcttga ta                                     312
  
```

<210> 16681  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16681

```

tcattgtctt tgaacttc tctctctcta aactgcaaat atatgcaagt cagtaacaat 60
tcatccccc aaatcaaatg gtcaaaatc aacaaatga gcaagcttta ctctctctcc 120
ataagctctt tgacatcaaa catctctctt tctgggttga cagctctctg attcttgcca 180
  
```



gccttcccaa tgagtctctc actgtcgggtg aaagcaaccc acgatggggt gatacggtta 240  
 ccttgggtgtg tggctatgat ttcaacatgg ccattcttgt aaacacggac acatgaatag 300  
 gtgtttccaa gatcaatgcc gatgaccgtc cctaacttgg tggcttccct cttagcaatg 360  
 aaatgggtt atagacatcc tatggagaaa tttctcaatg ttagttaat agttaaatt 420  
 ttataacact t 480

<310> 16632  
 <311> 410  
 <312> DNA  
 <313> Glycine max

<400> 16632  
 gacacttoga aactcaagct tctatagaag tccattccta attgtctaca atagcatttt 60  
 ctctcaatga cctggagaca aagaacgtgg cattgacctg tggcgaaaaa caataagcag 120  
 cctttgcttt gctcaaagaa aagcttacta aggcacctat tctagctttt gctgaactttt 180  
 ctaaaacctt tgagctagaa tgtgatgctt ctggagtggg agtgggagct gtattgggtac 240  
 aaggtggaca cctatttgc tttgttagag aaaaacttta tagtgccacc ctacactacc 300  
 ccacctatga taaagagctt tatgccttaa taagagctct acaaaacttg gaacatttac 360  
 ctgttcccaa ggaatttgc attcataatg atcatcaatc acttagtaca 420

<310> 16683  
 <311> 357  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 16683

ggatctttta ggtttttatc tttaatcttt tatccctgaa cgaactatcc aaagttgtaa 60  
 ttogaacttt aattatcttt taattcgtc cttaaagatag atcgccaaat ctgttgctaa 120  
 ctgcacatta atctgttaaa gatataacag atttatgtgt ccagtatttt cgggcaagat 180  
 gttctggaca tcttatccga catcgtggat cctgcagctt caattcttca ttndacattt 240  
 tatcttgcct tgggcattgt gcagcccaat ctgattcctt gacataacgg tggacatcat 300  
 gtgcagcaac tccagcttct ctccattggc taagtgccta tgttttaaca aaatttta 360

<210> 16684  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <100> 16684

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ttatcaactgg ccttgcactt cctgtttagt ccgacaaaact ttattctggc atcactgatg 60
ggactgttag gataagggac tgcataactg gtaaatgtgc taaagtcata aatcttgggtg 120
tgaaggtac ctttttgatc agtgaggggt catggatttt tgttggctctg caaaatgctg 180
tgaaggtaac ctcttatctg gcattgggtt ggtttgatgt atgataatgt ctaatcataa 240
gagtagtaca tgcaaaactga ttagtgggct gtggttgggtg tgaaagcttg gaatatccag 300
accatgtcag aagttactct cgatggaccc aaaggccgaa tccctgccat gaattgtggc 360
aacaatacac tctntttctgg cgcagaggta actaaccatg ttattaatat tgcgaatatg 420
tattccocta aacg 484
  
```

<210> 16685  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 16685

```

agcttgtttg ttacagtgc aacaattggg ctggagatga agatgattgg aaaagtacca 60
gtggattttg gtttttcata ggaaacacaa ccttcacttg gatgtcaaaa aagtagccga 120
tattcactct tttagactgt gaggcagaat acgtagcagc taattcatgt gtttgtcatg 180
caatctagca taagaattta ttaaaagagt tgggcatgtc acaagaagag ttgaccaaga 240
tctttgtgga taataagtta gtcattgttc tagcaaggaa tccagtgttc tatgacgaa 300
gcaagcatat tgataccctt taccactaca taagggagtg catagcaaga aaggatgtac 360
atgcagaata tgtgaagtct caagaccaag aagctgacat cttcaccgaag ctgctcaage 420
a 481
  
```

<210> 16686  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16686

```

ttgacagaaa ttgcacatcg taacattgta aagttacatg gtttttggtc acattttcaa 60
taattatttt ttgtgtgtga gttctggag atgggagacg tcaagaagat tttgaagga 120
atgacaaa caattgcgtt tgattggaat aaaaaggagg atgttgtaa aggtgtaaa 180
atgttga ataatgga ttaaat ttaaat ttaaat ttaaat ttaaat ttaaat 240
agcagaatg ttcttttggg ttgcattat gtagctcatg tctcagactt cggaacagcc 300
aagtttctta atccagattc atcgaattgg acctctttg caggaacott tggatatgct 360
gtctcaggtt aatttcttt ctctatacta ttgagtaaa tcatgatatt ntagtgtgtc 420
ttgttagcc attacaaat atatat 446

```

<210> 16687  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16687

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tctaagaata gccttgataa ctntaacata atccattgat tcttccccaa aaaatatagt 60
gtcactagca aattgaagga tattcactgc aaccttggtc ttccccacca taaagttgtg 120
gaagcagtggt ttggatattg ctctctcat cattctgtc aaacgttcaa caaccaagtc 180
aaacaataaaa ggggccaaag gatccccctg tctcaaacct ctttgaggct taaattcagt 240
agttgggctt tcattaacta cgatagatat agaggctgat gtgaggcacc ccttgaccca 300
actaatccac ctgtcatgaa accccattct tctcatcata taaaaaagga atttccaaga 360
acatagtcga tangctnttt cgaaatccac tttaaaccac aagcaagacc tctttgacct 420
cctaagcccc tcaacaacct cat 443

```

<210> 16688  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16688

```

tgcataaata aagaggctt attggttcaa atctatgttg atgataaat ctttgatct 60

```

actaatgaat ctttctgcaa ggagttttct attgacatgc caaatgagtt tgagatgtcc 120  
atgatgggtg agttaaacta ctttcttata ttacaaatca aaccaacaaa tgatgggata 180  
tttgtcaacc cagcaaaaata ttacaaggaa ctcatcatga aattcggaat gaagaactca 240  
aaacacttgg ctactctat cagcactggt tgcctcctt gacaagatga atccggtcaa 300  
ctcgttgata aaacaaata tggacatgt atggatctc tactttact atata 360

<210> 16639  
<211> 344  
<212> DNA  
<213> Glycine max

<223> insure at all n locations  
<400> 16639

tgagaatgga gaattgtact aagcaatcac ttggcatagc tccaaactcg aaggtggagg 60  
acacatgaan gaaaacacaa ttcatgggjc ttcgaaaaag gggttgagaa tggagaatta 120  
cactaagcaa tcaactacgc tagctccaaa ctogaaggty gaggacacat gaacgataac 180  
gcaattcatg gggctccgaa aagattgaga atggaaaatt gcactacgca atcaactacg 240  
atagcttcaa acgcgaatgt ggaagacaca tgaatgaaaa cccaattcat ggggctccca 300  
anagattgag aatggagaat tgcactaagc aatcaactac cata 344

<210> 16690  
<211> 437  
<212> DNA  
<213> Glycine max

<400> 16690

agcttttact atcctattca aatgttaaca tgactgttac cctaaaataa aatcaccaaa 60  
caaaagattg ccaaaagtat ctcccaccaa ccccgagat caaatctcat actccctcgg 120  
tttcaaaata catgtccatt ttgaaaaat tgcggtaacc aaggacaggc taatttgaca 180  
caaaagttcc tattttacc ttgtccttca tttctccat ttatatatta ttatccccac 240  
ctcataatta ctcccatac caaaattaat taaagttaat caaattacaa taccaataca 300  
tactggcaat accaactact ctaaaaggca ttatgtttgc ttgggtatg aaaaagctcaa 360  
tgggcatagt tgggtatca aaagtittta aaactcaatt gaaaaaactt cctccatta 420

ttacatatac tataatc

457

<210> 16691  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16691

ttaaacccac taaaaaaggg aagacttata tagaagatgt atctccaatt tcttagaggt 60  
gagttcaaat tcttacatat aaaagagttc gaatccattt tccattattt ttttaagattt 120  
cttggttggtt tacatcaaat aaaaagaaat ggtgagaagt tagaagatgt tagaattatg 180  
gagaagata ctacgccccg tagatcccaa atttgagcat attattgtga caatcaagga 240  
aaccttagat ttaaaaaacca tgatgataga acaacttcaa ggatcattgc aagcttatga 300  
agagaagcat aagaagaagc aacagatcac taagccactc ttaagatgc aactgatgga 360  
gaaggaagaa agtcaacgaa atga 384

<210> 16692  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16692

agctattgnn ttttaattct agagncnnga natatnacgg gaattattcg aacattcgag 60  
ttaaaagtta ttggcgctcg catttgcctc gagctttctg tttcaatgac gagtgtctcg 120  
atatgttaag ggagtgatcc gagttaaag ttattgtctg ttgaattttc taagagcttt 180  
tgttttcaat ttttaagtgc ttgatatatt acgggactca atcggacatc cgagttaaaa 240  
tttattgtcg ttgcatttg ctacagagctt atatactcaa tttcaagcgt ctcgatatat 300  
taagggatcc aatcgaaaat ccaagttcat agttattgtc gtttgaatat gctacgagct 360  
ttcgttttan attatgagcg tctcgatata ttacgggact caat 404

<210> 16693  
<211> 470  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 16693

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ctattcggac ctatgatact cagcttggag gtatgtctct tgattgacct atttgatatt   60
tcatttactt gntatttcac attctggtag gtttaaatat taataatggg acagtgtgtc   120
ctcgaatttt aagaatgaaa ttggttattc aatatagaaa aaaaaagaa aggtataatga   180
atgtaaagg aatgaaatt ttctaatat cactcattt tctcatttg cactatgaaat   240
ttaaattgaa ctattaaatt aagttagcaa tataaaactta tcttattaag tcataaaata   300
tatatatcaa aataagaaaa aagataagac ttctactact tctcagttta attaaaaatt   360
gaattaataa gaattttttt cttctaatga attgaaggat taaaataaat aaaaataata   420
attatctata ttggatcttt gaacacgggt acccttatat aatgtgtcta   480

```

<210> 16694  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16694

```

ntggagtaaa aggccttacta aagaaggcaa taggggtggc tttctgcgat aagaactgcac   60
ccatgtcgac accaaacacg ttgttttcca aggaaaaagg gataatgaag tccggcaaga   120
gtaaagtagg ggtatagaa agcacatctt tcaatccagt gaaaacttgt tgcgccttag   180
atgaccactc aaaggggtac ttcataagta acctggttta ataagctgca atggaggcat   240
agccacgaat aaatcgggtga tagaaaccgg agaggcccaa aaaactgtgc aaggccttgg   300
aggaatgagg ttgtgggtcac tgctaaatgg ctnggacctt agccgacact ggttcaactc   360
cttgtgcaaa aaccaggtga cccaagaact caacttggtg ctgggcaaag gtgcacttgg   420
atagt                                           425

```

<210> 16695  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 16695

```

tgaatcgat tacacacata ctctaataga ttaccagatg tatttttcag aaaaacttct   60

```

caacagtcac atcttttttat ctgattctta agtggccatc aaaggcttat atatatgtga 120  
ctagagacac gaattgaaca agagttttga agaacaaaaa ggtcttacc tottaacaag 180  
caaaaattggt ttatctcttt acaaattctt tggccaaaac actcgtgatt caataaggaa 240  
ttatttgagt gctcaaatg tcaaatctat cttctctag agagattct tcttctctc  
tctctctct tctctctct tcaagatacc gagggtctct tcttctctaa ggattctaaa 300  
tctctctg

<210> 16696  
<211> 377  
<212> DNA  
<213> Glycine max

<220> unsure at all n locations  
<400> 16696

tagctctctc aaagacttgn ggtccaacat aggcctcatt tcaagctaa tcaatgaggt 60  
aacacccccct tgggtggctc taacaattgg tggggtctct aatttttttg ggtattctat 120  
aatttggctt gcagtggcca gaaaaattgc taagccccc aa gtttggaca tgtgcttgta 180  
catctctcatt ggagccaatt ctactgttc caccaacact ggagtcattg tcaccagtg 240  
aaagaacttc cctggcacia ggagcattgt aattggcttc ttgagtgggt atcttggctt 300  
gagtgcagct atcatcactc agatatacta tgccttctat ggaaatgatt ccaagnttct 360  
aattntgctc atggcat 377

<210> 16697  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 16697

acctacgata tttaatggag agggttacca ctactggaat acccgatgc aaatctttat 60  
cgaggcaata gatctaaata tctgggaagc cattgaaata cggcttata taccacacac 120  
agtataaaga gtttcaatag atggtagtct atcaagtga agcataacca tagataaacc 180  
tagagataga tgggtctgaac aggatagaat acgagtacaa tacaacctaa aacctaaaa 240  
cataataaca tctgccttaa gaatggatga atatttcaga gtttcagatt gtaagagtgc 300  
taaagaaatg tgggacactc ttgattaac acatcataag aactacaga 349

<210> 16698  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16698

atcttgcttc agtgggaaga ctatggtaac atggttcaaa ggaagggtag gacaggatgc 60  
 aattttcctg ctgcaaggtc accaagcca gtgacatctg agaagcttgg aaatataggg 120  
 actgtaaaagc agcttaaaaag ttcaagactg ggacttgaga agagtgaag gttaaaaaac 180  
 tctgtattgt taagtttgac natttgctta ggtcacata tgnnagctaa tgttggtgat 240  
 tccatgtagc agggcaggtc gtccaccaac caggaaaactt ttgatctgta aagcatatgc 300  
 aggcagaaaa ccttcagcaa ttagtgcac agcagatttt ctgggtacta atttctgctt 360  
 ctagaaaaga gtaatgatct caagttctca tctgtataat asa 403

<210> 16699  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16699

tanagataaa ttaagaataa taatagaata ttccatctta tattctgatt atatattcta 60  
 tcaaatataa attgattagt tagactaaga ataccgatag actatcttat cattgataat 120  
 atattctatc aaatacaaac tgattagtta ggctaacaac actgatagaa tatcttatca 180  
 tatattctat cagttattac ttattagatt gtacatatta attcttttat ttaaaaatat 240  
 cattgtcaaa gtaggataaa tatttaatta tatacaattt gttttattaa ttattaataa 300  
 cttcttactt tatcttaata atttatactt aacagatgag tatttntctc attataacta 360  
 tgtactatcc aatgtcttat tagattttta ataacatatt atccatttaa ttacagatg 420  
 actgtaattt gatcaatcat tagtatatat atttatacta tccacccgatt aagttaaaq 479

<210> 16700  
 <211> 443  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 16700

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nlaaggaagc aatgcattac cccacatgga tcaatgcaat gcgattatct gctgaattct 60
attgagaaga attcaacatg ggaacttggt aatctgcctc ttgacaagaa acccatagca 120
ctgaagtggg ttatataagt gaaggtgaaa tccaaatgag gccagacttc tttcaaaaag 180
gttccttatga aaacttgag ttgactatgg ttgaggtctat tgcactgggg caagaataga 240
aacaatgaga ttggtggtag caattgcaaa tatataaggt ttgtctatgc ataaaactaca 300
tttgaagctc gctttcttaa atggacagct agatgaggaa gtttatgtgg accagccact 360
ctttgagaca ttgggacaag atgaaaaggt atacagattg aaaaaggaat atatggtctt 420
aataagctcc atggcttgga aca 443

```

<210> 16701  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16701

```

ctctgtgagag cacttccttg agaagctaga gcttagctac acacaccctt ttcatatcta 60
agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagttac 120
acaaacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180
caccgcctat aatagctaag ctacccccca tgacaaaata catgaaaata caaaaaatat 240
ccttactaca atgctactca taatgcctcg aaatacaagg ctaaaacctt ataactactag 300
aatggcctaa atacaaggcc ccaatgaagg anaaacctat tctaataattt acaaagataa 360
gtaggcctat acttagccca tgggctcgaa atctacccta aggcctcatga gaacctacg 420
gaccttcctt ggaatctctg cccaatctac ttggactctt ctatc 465

```

<210> 16702  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16702

atgtactgac ttangogaty ggatgcccac actaaagcac aacacgttct ttcgagcaag 60  
 gagtaattca tctcacaggt cgtgaacttc ttacttaggt agtaaacaga ggcctctctc 120  
 ttcocggatt cgtcatgttg cccacagata cccccattg actcgtccaa gattgtcatg 180  
 taaaaaatga gaggccttc aggtactggg ggcataagca cgggagpatt tttatgna 240  
 tcttgatcc tttaaaaaag cctcttgcaa tcttcattcc accagtcagt ttatgttt 300  
 tgcagaaggt tataccaggt ctacataatg gcygtgagct ggcataagaa tctggcctaa 360  
 taattcaa 368

<210> 16703  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 16703  
 agcttttgcc tcttcattgt tggaaataga atgttgcata tagatccaaa gaaccttagg 60  
 tgccttgctg atggcttatt cccgttccaa gcttcaatag gtgtcttgct tttacagac 120  
 ttagtggac atctgttgag tatgtaaaca gcacagtaga ctgcttcaga ccacaatgtg 180  
 tttatgactc tcttctcttc gacatogac ctaaccatat ccataattgc gcaattcttc 240  
 ctctctgaca cttcattctc gtgaagagaa tatttgacta taagggtggc gctcaatgcc 300  
 ttcctctcca caaaatcttc catactcgg agaggtgtac tctttgcgg gacacttca 360  
 ttaaaccttt and 373

<210> 16704  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16704

tcaagaaaa gatggcctca gcaaatctct tattccaga tagttctct atcaatagat 60  
 ctccaattct taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggcaataga tctaaatctc tgggaagcna tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt tccaatagat ggtagtccat caagtgaag cacaaccata daaaaacctc 240  
 tagatagatg gcttgaagat gatagaaaac gagtacaata caaccraaaa gccaaaaaca 300

taataacatc tgccttagga atggatgaat atttcagggc ttcaaatgtg aagagtgcct 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420  
 ngataaatgc actaactcat gagtatgata tatntagaat gaatgcaaat gaaaata 477

<210> 16705  
 <211> 47  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16705

tgatattnta ttgtttcaat caaagtcata aagttcatga tgaattgtat caaatagaga 60  
 aagaagtaaa agctggcaaa gaaagcaaca attgatcaaa tggattgaat gaatctcatt 120  
 gaaagaaatg aatgatgaat acatgtgttt catattatat acaatcaact ttgggcacca 180  
 atctaactac tagaaaatac aactaactat aactgcttct aactgtcaaa acagaaaaca 240  
 gttagtgcct aactaattct atatgttgag agccctccca atatgaggaa tgtatgttag 300  
 acatttcocaa cttagagctgc aaaagacaaa aagcaatagg agagaaagct ttggtgaata 360  
 tctgggcaag ttgataggct aaagatatag atagaagatt gatcaagcct gaaagcaatc 420  
 tcttgccacac aatgttggaa gttaattttg atgtgctttg tgggtcctatg aaacacaggg 480  
 ttgac 485

<210> 16706  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 16706

agctagagtt tttctttata tatgacatgc atgatgcctt ttccactgt atccacttaa 60  
 atttcatat gctagaaaat cattaatagt acaaaaacac attgtggcga acctgaatgt 120  
 ctactgcaca ttgtcatccc acacatctac cctttcttcc cacaattgtt tcaagtcttc 180  
 gattaatggc gtaagataca catcaatata attccctggc tgccttggac cggcgatcat 240  
 catacacagg ataattgtatt taagcaaat gcacaaacat gggggaaggc tataaatcat 300  
 caataaaaaca dcccaggaac ttgtgttgcct gcttaagcta ccataaagat tcattccatc 360

agaagcaaga gaaagcctta

330

<210> 16707  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16707

auctngccgt tatgggtgtt ttgactatg ctctggggg ggggaacaa gtacaaaagg 60  
atagagaaag aatgaatag ccaatgggtg atacatgggc ggagatgaaa aggatcatga 120  
ggaaggggca tgtgccggct agctactcaa gggatttgaa attcaagctc taataactaa 180  
cccaaggcaa catggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
ggaagattga agaagatgag gaggtaacta tggctcgatt tcttaatggg cegactaatg 300  
atattgtga tatgttgag ctgcatgagt gggttgagat ggatgatctg ctccacaaac 360  
cactccatgt agagcaacaa t 331

<210> 16708  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16708

ggtgcaccca ataccctgat gaggatgtcc catatgttct taaatctgta ctgattcatt 60  
tggcttccaaa gtttcatggc cttgcaggtg aagaccgca caaacatttg aaagaatttc 120  
acattgtctg ctccaccatg aaacccccag atgtccaaga ggatcacata tttttgaagg 180  
ctttctctca ttcattatag ggagtggcaa aggactggct gtattacctt gctccaaggt 240  
ccatcacgag ctgngatgac cttaagatag tattcttaga aaaaaatttc cctgcttcca 300  
ggaccacaa cacaagaag gatattccat gtattagaca actcagtgga gagagcctgt 360  
atgagttactg ggagagatat aagaaactat gtg 393

<210> 16709  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 16709  
 agctttatct ttcaatttcg agcgtctcgt tatattacgg gactcaatca gacatccaag 60  
 taaaaagtta tcatcgcttg aattggctca gagcttcaac attcaatttc gaacgaactcg 120  
 atatatgagc ggaatcaatc agacatcaga gaaaaagtt attgtcttt gaaatggctc 180  
 agagattcca catccaattt cdaagctctc aatatattac cgaactcaat caacacatccg 240  
 aaaaaaaat ttttttcgtt tgcattcgtt caaagutca acatcaatt tcaagctctc 300  
 tcatatatta tgggactcta tcagacttcc gagtcaaaag ttattgtcgt ttggatatgc 360  
 tcaaa 365

<210> 16710  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <23> unsure at all n locations  
 <400> 16710

ctgagacaat tcatacgaca ataactgtnt actcggatct ctaatttagt tccgtaacat 60  
 atcgagatgc tcgaaattga atgtggaatc tetgagccaa ttcaaacgac aataagttnt 120  
 taactcggatg tetgattgag tcccgtaaca tatcgagacg ctcgaaagtg aatggtgaag 180  
 ctctcagcca attcaaaaga caataacttt ttactcggat atctgattga ttaccgttat 240  
 ataacgagac gctcgaaatt gaatgttcaa cctctgagca aattcaaaag acaataactt 300  
 cttctcggga tctttgattg agtctgttaa tatatcgaga cgctcgaaat taatgtttaa 360  
 gctcatcca attcaacgac ataactttta ctctatgtct gttgagtcca taatatacga 420  
 gaactcgaca tgaattcgaa ctctattcat tcaa 454

<210> 16711  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 16711  
 aactttatct ttctttatc atgaaattga tcttctctaa gatggagcca aaccactcca 60  
 ccttcattaa gaactagctc ttttcttctt ctatccccct taggtgaata caactttatt 120  
 tgggtctcra ttgggtcttt aactcttcca tgcactttt atacaaactc tgacataaat 180

tcccccttctt tatggataaa agaagtgtcc actgggaggg gaatgaggto aaactgtgtt 240  
 aggggattga acccatagac aacctccaaa ggggactggg tgggggttct ttgaaccccc 300  
 ctgctgtatg caaattctac atgaggaata tactcatccc aagaattatg gtttcccttc 360  
 aaaaaaccc tta

<210> 16712  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 16712

tcttcttttg ctgttgctat ctgattgtcc atgtcagcca gtttttcagt tggttcaatg 60  
 ttctctgaat caatcaagga cataatcttc tcccgggcag catctgggac tacttctata 120  
 ctgagcacaga caaatatctc ctgagctctt gcttgccttc tgaagcaat tctcttcato 180  
 ctgtctggctt tcagctgata aagtctctca acttccactt cagcttttat tattaagga 240  
 aaaaaacagt taatatcata ctctggaactc gaatctgtaa acttcataag ttcttttagta 300  
 cctactgtct caatcagatc cagagcaagg gcaccaggaa cagtgcactc atcaacagaa 360  
 gctgcacatat tacaggtaac atgggtcaat agtctctctt cctcgggatg agtatccatt 420  
 agattccaaa gatcaattaa ctgagaagct aattcttg 458

<210> 16713  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16713

tctttaaagc anaagataaa tagcaataaa taaaagaagt ctaaggggaag agaggtatgc 60  
 aaacttgatt tatactgggt cggccacttc cctgtcctac atccagtcct caagcaaccc 120  
 acttcagatt ttccattctc ttgttaaaac tctttttaca aagtctgaac cacacaggga 180  
 caaccccttc ctgtgttca ggaatctctt ataacaagag acccaccgtc tcttaatccc 240  
 ttttcagaaa aaagaagaag agaagaagaa atctctctta aaagagatag attgtacaat 300  
 gaagatcaat caaaactctt tatgcctat gcaagtgggt gacaaaggaa tcttttagag 360

aagataagac agttcagttc agaaaaactc ttaatctttg aaaggataaa acttttttggg 420  
 caatgaaaaa tcccttttgaa ttgtgtttc caagtcacct ttga 464

<210> 16714  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 16714  
 gttgctctaaa agttaactac aagcgaagaa gatactatgt ccaatgggta tggagtata 60  
 aaaaattcat gttgccccga atgattgcat attgaacaga catgaattag aagatatgtc 120  
 aaaaatgcctt acgtgtggga tatcacygtt caaagtcaag gatgatgagg agtgtattag 180  
 tcatgaatac tcaacgaagg gcccccttag caaaggatgat gtggatatctg tgaacgttc 240  
 caaggtttta ggtgtctttat gctaaaggat acgacgctaa agatcttaca tggcatgcat 300  
 atgacagaaa atgcatgga a 361

<210> 16715  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16715

cgctgatact gtcacccagg gattactaaa atatgggcct atnataaatt gntccaagga 60  
 ggttatgttt ctacgagagc tggaggaaat cttanaagta actcaacctg cagagttgca 120  
 acgttgtatg gtaaccattgt tccaccaaat aagtcgttgt ttgagcagtt cacatttaca 180  
 ggtttgataa ctattactag tcttcagtag ttactactgt ctctcgtgat catatat 237

<210> 16716  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16716

ctttanatta tatatataat atactctgtg ttaaaagtat ttagtatttc taacttgaca 60  
 ttataattta atatataaag tattttatat agcgtgtaac gtaacgatac ttaaacacct 120

aaatatatgc atgatagtat tcaccattta acacaacaaa taattgatat aagattaatt 180  
 tgatgaaaaa aaaaagaaaa agagattata cattcacatt tttgtgctaa caaaaagaag 240  
 ttaacaaaga caataaatta ataactgata ttttttaatt aaaaaaacac tcaacaaaca 300  
 aattaaagc taatatattt aattaaaaaa acactcaaca aatagtaact gatatttttc 360  
 aattaaaaaa acactcaaca tatagtaact aataattttc aattaaaaaa acactcaaca 420  
 atagtgctc gtagtgcatg ctagatgata gaggaaaaa gaggaaaaa tgaiaaataa 480  
 ttacgaca 498

<210> 16717  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16717

agcttgtgca ttaataaccc tgatgaggat gtoccatatg ttcttaagac tggactgatt 60  
 catttgccttc caaagtttca tggccttgca ggtgaagacc cgcacaaaca tttgaaagaa 120  
 ttacacattg tctgtccac catgaaaccc ctagatgtcc aagaggatca catattttctg 180  
 aaggtttttc ctcattcatt agagggagtg gcaaaagact ggctgtatta ccttgcctca 240  
 aagtcacatc cyagctggga tgaccttaag agagtattct tggaaaanaa ttccctgtct 300  
 tccaagaaca cagccattag gaaggatata tcaggtatta gacaactcaa tggagagagc 360  
 ctgtatgagt actgggagag atttaagaaa ctatgt 396

<210> 16718  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16718

agctcgnacc egggatctct aagtcacctg cagcatgcta gctttcttat ctgcctatg 60  
 ctagntacca catgattoga gcagttatca atatatattt gcttatttaa aaaaatactc 120  
 catattttta taagatattg cctttcaaa aaaattgggc gaattaatct cttaacatag 180  
 ccaaccagca tgagatcatg ctctagaca aaaagatctc acttgcctaa tccagattg 240



atattottaag atgcatttett ctccagggtae ttaccagcct cagcctcaca tagctcaaga 300  
 gctgttaaat ttccctgaag aaaatctcac agttcaacac atccaacaat ttttggggat 360  
 tgtaaattat atcagagatt ttatcccbag atcagcccaa tataccagtt ta 411

<210> 16719  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16719

ttagaaggat cactatttct ccgtgagagt gtctacatg ccacatagcc tcttatgct 60  
 acaccaatta ttgttgata ggtatcata tttttatgct aagaaaatca tgcacatcag 120  
 aaagaataag ttaaaatagt ataccaattg gtacaatagc accatctgag ccaccacaaa 180  
 ggateaagtc ctgcaattac ttacattttt aatgttttca ataaaataac tatataatta 240  
 cactaaactt gtnttaagaa ataaaagatt ggtaaaatat gagaaatcta ccatctaata 300  
 agcaaagtct gaagtgagat acttacagct tcacctctaa tgatatggtt tgcagcactc 360  
 aatatacaaa aattactagt agcacacgct gtagagattg aataaatang gcccatccac 420  
 ccttaaagtt ttcatatgat aaataaataa ttggttagaa gctatatata gac 473

<210> 16720  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16720

tctntanagc aaaagataaa tagcaataaa taaaagaagt ntaatggaag agagggaatgc 60  
 aaacttgatt tatactgggt cggcaccttc tctgtcctac atccagtcct caagcaaccc 120  
 acttgagatt ttccattctc ttgttaaaac tttttttaca aagttctgaac cacacaggya 180  
 caacccttct cttgtgttca ggaatcctct ataacaagag acccaagggtc tcttaattcc 240  
 ttttcagaaa aaagaagaag agaagaagaa atctctctta caagagatag attgtacaat 300  
 gaagatcaat caaaattccn ttttgcatat gcaagtgggtt gacaaaggaa tctttttuag 360  
 aagataagac agttcagttc agaaaaactc ttaattcttt agaaadatan aactgtttgg 420

gcaatgaaaa ccccccttga atntgtgttt ccaagtcacc tttgatggcc attcata 477

<210> 16721  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16721

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 aaaaatntaa gcaatgtcga taattntatt aacactactt ttcatttcac tgggtgcagca 120  
 ttaatttatgg gcttaacatt ctacagggca ttcaaaatga gaacaaaaac ttaaaaaaat 180  
 cactgaaggt aatttaatat tagatgttac aattataaac ctttctccat catattttgt 240  
 ggagatatct tgcattacta ctggtatcca tctagtctct ttaocttgtc atgatttgaa 300  
 ttgttgaatt gtcacctgta ttctttgaat tgtttttcca ggatgttggt actgagaatg 360  
 aatttgagaa aaaaacttctt gctgatgtta ttccgccaac cgatattggg tcacatttga 420  
 tgatatttga gctntagaaa atgtgaagga caccttg 457

<210> 16722  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16722

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 aatgacaatc aatctcaata tgttttagtc tctcatggaa tactggatta gaagctatat 180  
 gtaggggagt ctgattatct caacatagct tcatitgttg agtatttcca aacttcaatt 240  
 cttaaagaag ttgtttaatc caaatgagct cacatgtggc taagccata gctctatatt 300  
 cagcctctgc actagacctt gcaacaacat ttgcttctt actcttccat gagacaagat 360  
 tctctcaat agacacacaa tatctaaag ttgaacgctt atcaatgggt gatcttgcct 420  
 aatctgcata ccaaaattca actatttga ttttctctt gctctcat 458

<210> 16723

<211> 338  
 <212> DNA  
 <213> Glycine max

<400> 16723

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 ctcagtgtta aaagtatatga ccatttgaat ttctgttagag catccgttgt tcattttcga 120  
 aggtctctat atgtagtgaa ccttaattcg accctcgttgt gaaaagttat gattatttga 180  
 attctctgag aactctcgtt gttcaatttc gagcgtctcg acatattatg cgcctcgaatc 240  
 ggaatccat gggaaaagct atgaccattt gaatttctcg agagcttccg ttgttcaatt 300  
 ccgagcgtct cgtatatatta tgcgccccga tgggacat 338

<210> 16724  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 16724

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 agaatcaatt tcttgatctt caaaccttag ctccggcttc ctcttccccca tatcaactat 120  
 gcagcttgcg gtcaacatga atggccttcc caatattaca gggatgtcag tatcttcaga 180  
 gatatccatt accacaaagt ctgtcgggaa gataaaatgt tttactctga ccaacacatc 240  
 ttcaattact ccatatggcc tggtaatgga gtgatcaact aattgtaaag tcatttgaat 300  
 gagcattatt tcccactctt ccaatctttt gcacatggag agtgacatca aattgatact 360  
 tggaccagg tcaataaaaag cttttccccc tttgacttct tcaattgaac aaggaatagt 420  
 taca 424

<210> 16725  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16725

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cttgagacac gaattttgcta agagttttttg tgaacaaaaa gatctttatc tottaaaaaag 180  
 caaaaattggt ctatctctctt acaaatacct tggccataac acttgttgatt caataatgaa 240  
 ttattagagt gctcaaatgg ttcaatctat ctctttcaga agaaaatacgt cttctctctct 300  
 tottattcta aaaaggatta aaaactg 360

<210> 16726  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16726

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 ttattgtcat gttataaata tattatttagc agcatatgag ctatccctat caagaggaag 180  
 gggcacacat ttgagttctt atacacttag taactataga ttcttacta tttyggcaatg 240  
 cagataacga acgaaccccg actcttcaaa taatttttaa tatatgactt ctactagtgc 300  
 ttaagttacc ttcttttatt ttggaattta tgttctagct ctttagaaga cattaaacca 360  
 caaatatttt ctatttttaa aaaaacaaca agtgaattta atttatatta a 411

<210> 16727  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<400> 16727

cgtacggtta aagtctcagc atggtcacgt gctcatgcaa caattgttat tcgtggctat 60  
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 tgcctatagt agcaaagtc ttgatctagt caagtttgat gagttggaaa atgaggccgc 180  
 aattatactg tgcagttgg agatgtattt cccccccgc ttcttttgac atcatgattc 240  
 acttgattat gcctctgggc agagaaatca aatgtttggt tctgtttat ctacgggtgga 300  
 tctacccagt tgagcgatac argaagatct taactagggtc tacaagaat ctatctgtc 360  
 cagaagcacc tatgttgag acgtacattg cagaagaagg cattgaattt tgttcataat 420  
 acttacagaa tgcctacat gttgggcttc ctgagtgct gcctgctat a 471

<310> 16728  
 <311> 414  
 <312> DNA  
 <313> Glycine max

<323> insure at all n. locations  
 <331> 16729

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tadaactcca ctgacttttc cattttatcc ttcatattca ccggaataca ctgagctagat 180
ctggtaagtc gatctacata ttcagccaca tctttcttcc tgcctatgca ccaaacactt 240
ctcttcaaat cttggcacat cttagacatt ccacgatgga aactaagaag acctttatgc 300
gctttcttca tgatctttac tgtcaaatca tctaaagatg aacagcatat gctccctctg 360
aatttaatta taccagtcca gccctctcca actctacctc cttatccccc atta 414

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<310> 16729  
 <311> 393  
 <312> DNA  
 <313> Glycine max

<400> 16729

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gaaaaatgtg gcatttacct gtggtgaaaa acaagagcaa gcctttgctt tgcctaaaagc 120
aaagcttact aagycacctc ttctagctct tcttgacttt tctaagactt ttgagctaga 180
atgtgatgcc tctggagtgg gagttggagc tgtattgtta caaggtggac acctatttgc 240
ttattttagt gaaaaactat atagtgcac cctcaactac cccacctatg ataaagagct 300
ttatgcctta atagagctc tccaaacttg tgaacattac cttgttgaca aggaatgtgt 360
catctatagt gattatcagt cacttagcac att 393

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<310> 16730  
 <311> 323  
 <312> DNA  
 <313> Glycine max

<400> 16730

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 cotatgcaac tagaaagcct tggaggaaaa aagtatgcct atgtggttgt ggatgatata 120  
 totagattta cctgggtcaa ctttatcaga tagaactcac acacctttga agtattcagg 180  
 atgttagct taca ttcac acagatagg atgtgtcat caa 240

<210> 16731  
 <211> 1  
 <212> DNA  
 <213> Glycine max

<400> 16731  
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 tttttgatgc agatggcgga gccttggatt tgaggacaaa tccctttcaa gaatgagggg 180  
 gggatgagga cataaccaat gacctgaag cactggaatg tcccatgacc atatgcagac 240  
 ttatacaagc ccaacgcgtc atagagacac ggttggtcat ttgtatcgtt gccattgatg 300  
 atgattg 307

<210> 16732  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16732

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 cccgccatag taatgagaaa caggagcatg tctcagagta ataacatata catcaccaaa 120  
 ataatactct atagttagata aataatcata ttccgatgtg cctaggtaaa taacaaatgt 180  
 ataatgatta cacttcacag aacaacatgc ataaatatac cagatctaaa cattatgcaa 240  
 gttattctga cctaggttgt tgtcaagagt cttggtgaac tggtcctaaag ctggagaaac 300  
 ctccaacctt tgcctcagaa tctctttcgt cctctgaatt tgaacattct ttggccactt 360  
 catgaaccga gtcaagtctc tcttcagaggc aaagccctct cgattctgaa cctctttgac 420  
 gcttctcaac agcagatttg aac 443

<310> 16733  
 <311> 393  
 <312> DNA  
 <313> Glycine max  
  
 <400> 16733  
  
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 attttcttaa taatcaaaagt tgaaaaaaa cacacacatg gcatttatat atagcctaag 180  
 tttcacaaaa ttggaggaaa atttgaattt ctattcaaat ttcaattgaa ttgaaattg 240  
 aatttgttga gcaaaaattt tactaattat gattagttaa ttttagctat gtttcaaccc 300  
 actaatccaa gatcaagtcg aagattcctc actaagtgtg ctttaagtgtc atgtggcacc 360  
 taaagcatga aggcacatga caaagtgtga cta 393

<310> 16734  
 <311> 396  
 <312> DNA  
 <313> Glycine max  
  
 <400> 16734  
  
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 gaattctctg gagtatectg ccaaacccag aaaactccta atctctaaaa cagattttggg 120  
 actctccacg tcaagaacga cttctatctt agatggatct acagctatgc ccccttgaga 180  
 taccacatgc cctaggaaaac taactttctc taaccgaaaac tcacacttgg acaactttagc 240  
 atagagttgt cgatccctaa gtgtatgcag cacaatcctc agatgttctt catgttctc 300  
 tctagtcttg gagtatacca aaatatcctc tatgaatacc accacaaaaa tatcaaggta 360  
 aggttgaag actctattca tgtagtccat aaacac 396

<310> 16735  
 <311> 414  
 <312> DNA  
 <313> Glycine max  
  
 <400> 16735  
  
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 aaaaaagtha ttgtcgtttg aatttgcga gaggttcaac attcaatttc gagcgtctcg 120

atatattacg ggactcaatc agatatccga gtaaaacggt attgtcggtt gaattgggtc 180  
 agaggttcaa ctttcatttt cgagcgtctc gatatgttat gggactcaat cagacatccc 240  
 agtaaaaaagc tattgtcggtt tgaatttggc cagagattca acattcaatc tcgaacgtct 300  
 ctatatatta tttgtatcaa ttgacacccc ttttaagaag ttattgggtc ttgaattggc 360  
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<210> 16736  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16736

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 ttaetgggatg ttgtattttg tcccgtcata tatcgagacg ctgaaaattg aatgttgaac 180  
 ctttgagcca attaaaacga caataacttt ttaetgggat gtctgattga gtcccgctat 240  
 atatcgagac gctcgaaatt gaatgttgaa gctcagagcc aattcaaacy acaataactt 300  
 tctactcgga tctctgattg agtcccgtaa tatatcgaga cgtcgagat tgaatggtga 360  
 acctctgagc caattcaaac gacaataact gtttaactcag atgtcggatg ggctccgcta 420  
 ta 480

<210> 16737  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16737

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 aaaaagttaa ttgtcgatgt gaatttgggt gagagcttca acattgcaat ttcaagcgtc 120  
 ttgatattat aaggaaacta atcagacatc caagtaaaaa gttattgtcg attgaattat 180  
 gtctcagcgt caaatctca ttgcagagct ctcaataaat taagggactg aatcagacat 240  
 ccgagcaaaa cattaatgtc gtttgaatta tctcagacct tcagaattca atttcagatc 300



tctcgatata ttactgggtct caatcaaaca tctgaggaaa aaagttattg tcatttgaat 360  
 tctgtgagag ctccaacatt caatttggag cytttggatg tattacygga c 411

<210> 16738  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 16738  
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 atagcttttgg ctgcgataga ttttgcacca tagygtttga acgctcccca cactcaccct 180  
 cggcgcaactg agatccttat agtccttgag ggtactcttt atgttggatt tgtgacttcc 240  
 aatcaagatg gaaatcgctt ctccaccaaa gtgtgaaca agggtgatgt gtttgtgttc 300  
 ccaattggtc tgattcattt ccaaatgaat atgggaaatg ggaatgctgt tgcatttgc 360  
 ggccttagca gtcaaaatcc aggagctatc acta 394

<210> 16739  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16739

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 atttactcgg gaagtcctat tgagtcctgt aatatatoga gacgctcgaa atttagaato 180  
 gaagctcgta gaaaatacga acaacagtaa cttttcactc ggaagtcoga ttgagtcctg 240  
 taatatatcg agacactcaa aattttaaacc ccaagctctc agaaacttct aacgacaata 300  
 atttctcat cgggaaggccg attgagtcct gtaatatatc gagacgctcg aaatttaaaa 360  
 cgggaagctcg tagcaaatte gaacgacaat aacatttc 398

<210> 16740  
 <211> 408  
 <212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 16740  
  
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 aattatagt atttagaatt agctgngage ttgggttta aatttcvage gtctcgatat 120  
 attacvaaa tgaatcagat ttcgagtgaa aatgtatag tccctcgaaat ttaattcnaa 180  
 atcgggtttt aaatttcgag cgtctcgata tgttacggga ctccagtcgga ctctcgagtg 240  
 aaatgttatt gtctgttagca ttgtctgtga gcttcgggtt taaaattcga ggcgcacgat 300  
 atattacggg actcaatcag acttcggagt gaaatgttat tgtcgttagc atatgtctgc 360  
 agcttcggta ttaatatctg agcgtcttga tatattacga ggactcctcg gaattccgag 420  
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<210> 16741  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16741  
  
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 cattggaaaag tacaatgata aggtgctntg tgatgttggt cctatggagg ccagccactt 120  
 actcttctgg agaccatggc aatttgataa gagggctaatt catgatgggt tcaccaacaa 180  
 gatctcttct acgcacaaag gcaaaaagat agtgctcaaa ccgttcgagtc cacaagaagt 240  
 gtgtgaagat caaagaanaa tgagagagaa aattcttcaa gaaaagagag aataaganna 300  
 agagagccaa acacttgaga gttcataaag tgaggacaaa aagagggaaa cacaagagag 360  
 gaaaaagatg agtgaaacat ttgaagttag ggagaattnt ctagctacaa aaggagagat 420  
 c 421

<210> 16742  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <400> 16742

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 aagabccctgc ctacttagct tottagatgc atactcaggg tacaaccaa taaggatgca 120  
 tccabaagat gaggagaaaa caaacttcat aacctagtcg totaactatt getatcagat 180  
 tcttccatcc ggctaaaaa aggttagctc cacttaccag taccctaatgg acatgataat 240  
 caattacaa atttcaaaa gaattgaagt atattttaa taccatggtc taactcttaa 300  
 tgaaggagaa tccacacact atgacttgga agatatttt gcaaaagatc gaagagctaa 360  
 catgtaactc aattcgaaga agtgtatggt tggggta 397

<210> 16743  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
  
 <220> unsure at all n locations  
 <400> 16743

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 aactttaaca tgcagaattg ataagaggta aatgtcattg caacaatact atgtggtaca 120  
 ttcttagtat gatcaccctt gcagaacct aaagattgtg aataacaagt caacatcact 180  
 tagtgccatg gcaatggtaa agccaattac gccatttctt taggcctccc acaaagctct 240  
 taattctata tatatttata aaaaaataaa tcaaatttaa attatcaggt aatatattct 300  
 attgcattat ctattattat ttgcgtagcc agattataaa attttaatta cacatagata 360  
 tattataaat catttgagaa gtttataatt catttgacaa ttatagaaaa attagtttcc 420  
 atctacttta aatcttgtaa aatcacactt aatgaatata atgattcaat ttata 475

<210> 16744  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
  
 <220> unsure at all n locations  
 <400> 16744

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 tgrattgtca tggggacaaa gtcccatgcc atgtttgaga catctaagat tggcgtcttg 180

cctttgcccc gtattatatt ttgcaacatc ttcctttctt aaccttgtca ttacctcgaa 240  
 atctcaatat ggcaacttac tcttgtggaa aataattttt aagaattaat ataacasttt 300  
 aaaattaaat ttagaatatt aaaaaaatat aaaacataga tataattctt taggtgctat 360  
 tgaatctttt ctctgttag aattaaaatc gtacttcagt aatccacata aaaaagatat 420  
 aatccataaa attacttcaa ttatcatagt gaaactct 480

<210> 16745  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 16745

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 tctctatcct tacacacatt acccattaac ctcttaacca taaaaagatc accttccagg 180  
 gggtgtacat cacattcatt ttcactctca ctagaagaac tagaccagct agaagaagat 240  
 aaactaatga taccctcatt acccaacaca accatagtc ttttgctagg acattgngag 300  
 gcattatgac ccttttccaa acacttanaa catttaatag aacttacttt tgaagaagta 360  
 ggagttaggt tagaaccaca ccatactacg agagaggttc cctctttttac catttttaat 420  
 atccc 480

<210> 16746  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 16746

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 gagaaattca aatggctata acttttcaaa cgggaagtccg attctggcgc ataatatc 180  
 gagaagcttg aatttgaaca acagaagctc tctagaaatt caaatggfca taacttatc 240  
 caagggaagt cgaatcaggt gcataatata tctagagctt cgaatctgca caacgggaac 300  
 tctctagaaa ttcaaatggt cataactttt cacacgaaag tctgattcag gtcacataa 360

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404

<210> 16747  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16747

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tctcgagaga ttcggttgtt caattccaac ctctcgata tactatccgc cggaaatcgga 120  
cttcggtgtg acaagttatg accatttgaa ctctcgaga gcttcggttg ttaatttcg 180  
agcgtctoga tatattatgc gcttgaatcg gacttcggtg tgataagtta tgaccatttg 240  
aattttctaa cngcttcggt tgttcaattt caattctctc gatataattt gcaccttaat 300  
cngactacgc tctgaaaagt tatgaccatt tgaatttctc gagagcttcc gttgttcaat 360  
tccgaccttc tccatatact atgcgcgcga atcggacctn catgtgacaa gttatgacca 420  
tctgaagttc tccagagct 439

<210> 16748  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16748

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tcaaaattta aatcacatta aaatgaaact tgagaaacaa aatatgaaag caagaagtat 180  
aaataagaaa taaattgaat atttacctat atatgtgtaa atatttttgt aaaagatcaa 240  
aaatataata ctttaatata tgggttaaaa tatacaagaa tgtatagcat tggacaatt 300  
gtttaagtta ttgatatga taaacatatt gtttttactt tctgtaaatc atgatccata 360  
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acccccaa 428

<110> 16749  
 <111> 333  
 <112> DNA  
 <113> Glycine max

<400> 16749

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 atttactctt ggggagacca tggcaatttg ataagagggc taatcatgat ggtttcacca 180  
 acaagatctc ttccagcat caaggcaaaa agatagtgtt caaaccattg agtccacaag 240  
 aaatgtgtga gcatcaaaga aaaatgagag agaaaattct tcaagacaag agagaaaaag 300  
 aaaaagagag caaaacactt gagagttcaa aaagtaagga caaaaagagg gaaacacaag 360  
 acaggaaaaa gatgagtga aca 333

<110> 16750  
 <111> 389  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 16750

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 ttcttagcct caacaggagt catatcacca agagctccac cattggcagc atcaatcata 180  
 ctcccttcca agttgctaag tccctcatag aaatattgca gaaggagttg ctccagaaatc 240  
 tgggtggtgag gacagcttgc acacaatttc ttgaatcttt cccagtactc atacaagctc 300  
 tctccactaa gttgctgat gctgaaatg tcttttctga tggcagtggt cctagatgca 360  
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<110> 16751  
 <111> 309  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 16751

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 ctacagtaga tcttcaggat caagaaaaaa cagcggttac atgtcctttt ggtgtttttg 180  
 cttatcacccg catgttgttt ggtttatgta acgccccctgc tactttctaa agatgtatga 240  
 tggcaatttt tggatggcatg gtatgagaaat gtatggaat cttatggat gatttttggg 300  
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 aagaatcta 369

<210> 16752  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 16752  
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 tctttgtcct tctttgcagc aatctggagt taatgaacaa cctgaaactt atgctgcaaa 180  
 cttttataat agacccctc agcagcaaaa ccaacctcag cagaacaatt atgatcttcc 240  
 aagcaacata tacgatccag gttggaggaa tcatccaaat ctgagatgga caagtctccc 300  
 acaacaacaa cagcctgtcc c 321

<210> 16753  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16753

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 tttacctgng tcaactttat cagagagaaa tcagacacct ttgaagttat caaggagtgg 180  
 agtctaaggg ttc aaagaga aaaagactgt gtcacaaaga gaacangag tgacctggc 240  
 agagattttg aaaacagcaa gttactuaa tactgcacat ctgaaggcat cactccatgag 300  
 ttctctgcag ccattacacc acaaacagaa tggcatagtt gadaaggaaa aacauuactt 360

tgcaag

366

<210> 16754  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16754

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atatactaag ggacacaatc ggacatccga gtaaaaagtt attgtcgttt gattntgctc 180  
agagcttctg ttctgaattt ccagggtgtc gatataccac ttgccaccat cggacatccg 240  
agtaaaaagt tattgtcgtt tgaatttgcg cagagctttt gttttccatc ttgagcgtct 300  
cgatatataa cgagactcaa tcggacatcc gagtaaaaag ttattatcgt tagaattggc 360  
tcagagcttc catntcaat tacgagtgtc tcgatatatt ac 402

<210> 16755  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16755

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tgcacaaaag atgcgttttag gaggagtgtt gatgcaaaat ggccaaggag tggcctatcc 180  
ttctagacaa ctcaagactc atgagaggaa ttatcccacc cttgatctgg agttggctac 240  
tgtatgtttt gcccttaaga tgtggaggca ttacctgttt ggcctcaagt ttacagtgtt 300  
caaggattat aagagggacc atgacacana gatcctncac aaagaattta gtcccagaca 360  
acaagta 367

<210> 16756  
<211> 383  
<212> DNA  
<213> Glycine max



<400> 16756

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aatlathcaa tttttttt tttttttt tttttttt tttttttt tttttttt 180  
aaatataaaa tgaatcaaac taatataatt acatcaaaaag aaaaaaaaag taatcaaaaag 240  
ggatataata tttttttt tttttttt tttttttt tttttttt tttttttt 300  
cttggaattt gatattgatg ccacacgtag gacaagttct aattaagcta tcttttctgc 360  
cttcaactat gatgttatga tga 393

<210> 16757

<211> 435

<212> DNA

<213> Glycine max

<400> 16757

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catttactat gctagcaagg tctcaatga tgcataaatg aattatgcca caaaggagaa 180  
ggagatgcta gctattgctt ttggcttga gaaattcaag tcatatttgg taagytcgaa 240  
ggtaataatt ttcacgata atactgctat caaacacctt ctcaccaaag tagattccaa 300  
accatgactg attagatggg tctgcttat acaagagttt gatatagtta tcaaagacaa 360  
gaagggatct gggagcgtgg tggctaatac cctctcccag ttgaagaacg aaagagtaac 420  
taaagaagaa ccgaa 435

<210> 16758

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16758

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atcacacttg gatttgata ggtttcaatt aaggcaaaaa ttattatatt tgcattgata 180

actaaaatgt tctttgtaca tttttttctg tgtatataat attaatttat gtatatctaa 240  
 ttgttaatar ttctgtatt tatagttatt gtattttatt aattatcatg tgatgtctcg 300  
 ggtattatct gataggattt tttatcattt taatcacatt ggtgatgatg ctaatttaac 360  
 tggatctca tttttctga 379

<210> 16759  
 <211> 131  
 <212> DNA  
 <213> Glycine max

<400> 16759  
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 tctgatata ttatgcctcc gaattcgacc ttgcgcgcaa aggttatgac catatgaact 180  
 cctcgagagc ttgcgtttgc taatttcgag cggctcgata tattatgac ctgaataggg 240  
 tctccgaggg aaactctctg accatttgaa tctctcagag ctgcattca tcagttttac 300  
 cgcctcgaa attatgcgc tgaatccgac c 331

<210> 16760  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16760

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 taagcatttg ctccaagaat aattcaagat tgcttcaaca aacaaagcct tgtttcaaga 180  
 ttcaactaaag accaagcctt gccttaaaac aaagtgcctt caagacatgc aaggctctgg 240  
 taatcgatta ccaggaagtg taatcgatta ccagaagaca gggttgagaa atagctgttg 300  
 aaaaaggttt tgaatttgaa ttttcaaat gtaatcgatt accatctgtc tgtaatcgat 360  
 taacagcaac gaaacttgg aaattcatal tcaagtcac aacctgca. attataactg 420  
 tgtaatcga 429

<210> 16761  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16761

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ctattggttg gaggaagact tgagaagctt ctacttcagt ggaattaggg ttgtgtccag 180
gtcaagaag atgagagcga ggattggcaa aaggccatgc ttgaaggatt cgcgccttgg 240
gtgaatcatg ggggttgggt ccttgcgcaa tgaagatggc atgcaagaca aaggaggttg 300
aggauctagg agggggaaaa gtctatgggg aagaggtggt angtggggga aat 353

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<210> 16762  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16762

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aaaatctgca cctgtcgcca gaatctgttg totatgtctt cctgtcgacc accacacaga 120
cctttgcctt cctgtgcaac aatctgaagc aattgaacaa cctgaagctt atgctgcaaa 180
catctacaac aaactctctt aaactcaata gcaaaatcaa ccacaacaga acaattatga 240
cctctccagc aacaggtaca atctcggatg gaggaatcat cccaacctta gatggtcgaa 300
tccttcacaa caaagcaac aacaacctta ttttcaaat gatgtggcc taagcagacc 360
atacgttctt tcaccaatcc agcagcaaca acaacaac 398

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<210> 16763  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16763

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 ttogattota ttccacacaa gatgtgggaa gcactttctc aggttttgta tttaaaactc 240  
 tctgtaatt tttccatgg tggatttgcg actacattaa agaattccact atttatccca 300  
 attatcctc taaatctaaa tcaattgtgt ggttaattac cctatctatc aagtaatttg 360  
 ttccagtttg atttttcaag caattcattc 390

<210> 16764  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <23> unsure at all n locations  
 <400> 16764

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 cagagaggtc taggtgagtc aaggagctca ttgcacaaag gaaagaagaa attgccatac 180  
 cttctccaag taaatcattg tagctcaagt caagatctcg aagcttagag agattccga 240  
 tctgaggagg aattctcccc atgaatccag taagagcgag gtcgagggtga gtcaaggaag 300  
 tcatgtccc atggaaagaa ggaattgaca taccagctcc aaataatata ttgccgtcca 360  
 agtccaagta attcaaattg tntaaatcag ccaaacaagg acttatctct ccac 414

<210> 16765  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16765

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 aattacgaat taatagttca aataataaaa ttaaattaaa ggaaattaat atattaagat 120  
 tcaacgataa ataactttta tgcattttta gttaattat ttattaacta tttttaattg 180  
 aaaaaaatat agtttgattt aatatatata tgttttgtgc catgtaaata ttaattctct 240  
 gtgatgtgta tattttctat aaggtgtcat aacatgttgc ataggaatta taacattgtg 300

attgagattg gatgtatgtg ataaatcgag tatgtgttga attgaagata catgtgtata 360  
 agatcttgac gcattgagtt gtgagctat 339

<210> 16766  
 <211> 4'  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16766

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 aggtttctgg taatcgattg cattattata ttttgaaggg tcatgaactt tgaatttgaa 130  
 ttccaagagt ttcatgtctg gtaataaatt acagacatat agtaatcaat tacatgttca 240  
 aattccaat tcaaacccct ttccaacagc tattctctaa acttcccatc tagtaatcga 300  
 ttcaactgcc ttgtaatcga ttaccagagt cttggatgac ttgaaacct tatgttttaa 360  
 ggcaaggctt gatcttgaag aaatcttgaa gcacgactct gtttgttgaa gcaatcttgt 420  
 attaatcttg aagcagt 437

<210> 16767  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16767

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 atttctcttt gcagataaag gatggatttg ctgagggcaa ggatcttggt gtgtctgtca 180  
 tgtctgctat gggtgaggaa cagatttgcg ccttgaagga tattggggca aagaactagc 240  
 ttttgggtgt ggcagcctgt tgtttctatt taagcaaaga tctttttgta agcctttata 300  
 ttgggttggt caagacctgg cttatggctt atagattcta gtcagactag tcttaacaat 360  
 ggtgtttatg gatgtggcca cagaaactat atcacatttt ttctgggttt ctatgctgtc 420  
 ctatga 426

<210> 16768  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16768  
  
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240  
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 420  
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<210> 16769  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 16769  
  
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 ttttgcaggt ggaactaata ttgaggagga ggaactaaca gatttgaggt caaatctctt 180  
 tcaaggggga ggggatgatg caatctctcc taggaaggga ccagtcacta gagcatgag 240  
 caagaggctc caagaggatt gggctagagc tgttgaagaa ggccttaggg ttctcatgaa 300  
 cctcagggta gattttctgag cccataggcc aagggttgtt ccaattatct ttgtacatat 360  
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 accctagaaa ta 480

<210> 16770  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 16770

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atcaatgctt acaatatttt ctcttaggtt gggaactaat aagaaatcat ggatgagttg 180  
ctacatctta tctctctca ccatgacagt gcttttccct tttaattcaa ctacacttcc 240  
attctccagt cgaactttga ctctgacaga ctgttcaatg ctcttgaaaa tagtctctac 300  
cttgggcctg tgaattgtac atccactatc caagtaccag ctctctccct tttcttttat 360  
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<210> 16771

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16771

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ggatagattt ttggcccatg ggttttagtat gagaccactt atctttgtac atattagatt 180  
aagggttcat tatttttggg ccttgtattt aggyttccat agtgtaggga ggctaccctg 240  
gtaatatagg attttttagc ccttgtaatt tatggcacct agactagttt ttgtattaag 300  
ggtagttntg taattttaca tgcattaagt gcactatttg at 342

<210> 16772

<211> 400

<212> DNA

<213> Glycine max

<400> 16772

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ataatattcg ggactcaatc acacatccga gtaaaaagtt attgtcgttt gaattttgctc 180  
agcgttccgg tattcaattt cgagcgtctc gatatattac gggactcaat ctgacatcca 240  
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cggtatatta cgggactcag tcgaacatac gagtaaaaac ttattgtcgt ttgaatttgc 360  
 ttagagcttc aacattcaat ttcgagcggt ttgatataat 400

<210> 16773  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16773  
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 cggaggtagt gttgaagatg gaccgcctgt cctcgaggtt ggctcggagg gtgcggtagt 180  
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 gttgcaagtt tttagacatg gattggccgg cgttgagta tcggacgttg ccgatggcga 300  
 ggtgcgggg gagctggctc agcttcgact ggttgaacac gtcggaaaag agaccaacgc 360  
 cggtgatgga ttggaggacg ttgttgtgaa ccgtaacgat tccggcgct 410

<210> 16774  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 16774  
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 gagtagttca tttcatagga cgtgaacttt ttactcaagt agtagacage gcggtctctc 180  
 ttcccggaact cgtcatgttg ccccaacata catccaatcg actcatccaa aatcatcata 240  
 tacaagatga gaggccttcc tggtaaccaac gacataagca cgagagggtt catgagacac 300  
 tgtttgatcc ttccaaacgc ctcttgacaa tctcattcc aacggacgga ttggtttttg 360  
 cgttaagagtt ggaataacgg ctcacaatta gcggtgaggt gtgatatgaa tctggcaata 420  
 taattcaaac gt 432

<210> 16775  
 <211> 424



<112> DNA  
 <113> Glycine max  
  
 <123> unsure at all n locations  
 <400> 16775  
  
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 gataacatgt ttatagaggt aaaaatctcat ttctacatct ggaaggaaat attaatata 180  
 ctatacaacc atagtgctag ttatccctt atatttcaag tcaagtcttc gctttagaga 240  
 gtctctcatg tgacattctg gactataaca ggagttgttg gctctggaag agcgcattgg 300  
 aaatgtgagt actggattga gtgaggaaac tgtattgaaa caattgaaac agagaaagca 360  
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 gact 484

<110> 16776  
 <111> 433  
 <112> DNA  
 <113> Glycine max  
  
 <123> unsure at all n locations  
 <400> 16776  
  
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 caaaaactacc tttaaatecg gagatattgt ttccactacc agacctttgc aattgttaca 180  
 tatggacctt ttggacctt caagaacttt gagtctaaga ggaaagaaat atggctttgt 240  
 catagttgat gactattcta gatacatgtt ggtatagaga aaacggttat aactgtctgt 300  
 aatttattaa atctataagg taattgatta ttgtaacaaa gttaccaatt agattatcta 360  
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<110> 16777  
 <111> 400  
 <112> DNA  
 <113> Glycine max  
  
 <400> 16777

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 tctgtttaga cctgtatag agtgcataa tctgcgaaa atgtcttcc atactttaat 240  
 tgcctctct cctcaatata aagcttctc caagatgtt ggaagtgtc atactaat 300  
 ggttgagatg ggtatacag agcagttgca cccgatctca caaggtccac gaacgtatct 360  
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<210> 16773  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16773

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 ctacttcaat tcttattcga gttataaatt ccttaataa tgaacttctt aaatattgat 180  
 tcaataaaaa caatttgaat atgaatataa agcaataata aacaaaggag attaagggaa 240  
 gagaaaaatgc aaactcagat ttatactggt tcggccacac ccttgtgctt acgtccagtc 300  
 cccaagcaac ccgctngaga gttccactat cttgtaaatt ccttttaca gttctaaaca 360  
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<210> 16779  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16779

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 ttaagtgcag atgtccaaat ctttgatgct atatatgac tctatctctt tggagacta 180  
 gacatgtgga ggagtaactg gttctttgag gttcccatag gtaacagttg tcttttgatc 240

tgcctgcctt cattaggact tcactcttct ccttctgcac caagcattct gaatttctga 300  
 agtttadatt gactccttca tcacacaact gactgatgt gatcaagttc gcagtcagtc 360  
 ccttcacag cagtaactttg ttacagactan gaagtccttc atggactagc tttcccatte 420  
 cagtgatc 480

<210> 16780  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <400> 16780

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 cctctcccat tttcttcttg gaaattgttc ttctagggaa tgggaagagg atattgttgc 180  
 ttcttaaatt agaattacca gtggaagatt cactgcata gaaattgtta ggtaacttac 240  
 tctttaaatt ttctgcata tcttttcttg gagtagagtg aggttgggta ggttcatttg 300  
 cggatgagga agatgtact ggtaaggtc cttgacaactg ctttcttgac ctcaatgtaa 360  
 tggcactcac atttttggga ttctggacag attgagaagg taatcagtc ga 412

<210> 16781  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16781

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 tgatggatgg ctcaaatctt cacaaggtta aactcatcac ttctaaattg agctttcaaa 180  
 actatcatga catgtagaga agaattcaagg atttctactg tggcatttag ttttggggtc 240  
 taggggtgggg tagtgaagtg agtcatacca tgatggttca aatagatttt ttaacttaata 300  
 gattcacctc catattaga gtaaaatgag acaagtgagg tattcaataa ttttcaagga 360  
 aagactcaca attttggaaa aatagaagag acatcaattt tttcttttaa tggatataac 420

aaacaata

428

<210> 16782  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 16782

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atattgtctg ctccaccatg aaaccccccg atgtccagga ggatccacata tttttgaagg 180
cttttctcca ttcttttagag cgagtggcaa aggacttget ttattacott gctccacgat 240
ctatccacaag ctgggatgac ctcaaaagag tattctttaga aaaaaaattt cctgettcca 300
ggaacacgac catcagaaaag gatatttcag gcattagaaa actcagtggg gagaacttat 360
atgaatactg ggagagattt aagaagctat atgccagttg cccgcaccac cagatttctg 420
agcagcttct tctccaata 439
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<210> 16783  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 16783

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tactaaaggc tcaacaatat ataaatatgc gagctgatta gaaaataaga gatgtgccat 180
ttaacgctgg agatatgatt ttagttaagg tacagcetta catgaaacaa tcagcggctt 240
ttaggaagca tcagaagcta tgcattgcgt attttgggtg gtttatagtg attgaaaaaa 300
ttggtaagat tgcataaaa gaacaactgc ctgagtc 337
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<210> 16784  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16784

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catagcgttt ggaatgattt cgtatatctc agaaggctat tgggaaatgc tggttaaaac 180  
acgaatgcca agcagatata aattttaatg aagaatgtat atgggcgtgt taaggtacgg 240  
cgaatgac cgggtgaacc ataagcggaa gttctctttg gtgaggttagc catggaaaag 300  
gatcgtacag cgggtgaacc ataagcggaa gttctctttg gtgaggttagc catggaaaag 360  
tcaaaatgat tagcatccaa agcctttgtg aaaatatctg ctattngctg ctcagtgtca 420  
acatgctcta gtgtgacac t 441

<210> 16785  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 16785  
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atctcaaatg gtctaaccct caacaacaac aacaacaaca acaacagcct gctccttctt 180  
tccaaaatgt tgttggccca agcagacctt acattccttc accaatccaa caacagcaac 240  
agccccagaa acagccaaca gttaaggctc ctccacaacc ttcctctgaa gaactcgtga 300  
ggcaaatgac gatgcataac atgcaggctc aacaagagac cagagcctac attcagagct 360  
taaccaatca gatgggacaa ttagctacac aatt 394

<210> 16786  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 16786  
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aaaaggctct auaattctca tgaaccttat ggttagatttc agaccatagg gctaagtatg 180  
agctcaatta tcttctgaca taataatata aggtttcatt atttttgtgc ctgtatatta 240

gagctccata atgtagatag ggtaccctag agatatagga attttcaacc cttgtatttt 300  
 aaggaacctt gactagtctt tgtattatgg gtagttttgt aatttcaact gcattagtg 360  
 aatatttgat gtgtgtgttg ggaaataaat ttaat 395

<210> 16787  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 16737

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 tgaacattct aaatgggtct ggaccccaat catagtgtgt atttttaacc aagatagggc 180  
 atgatacaga aacgtctcta tttagaactt cctgtattaa tcttggcaca acatctagcc 240  
 acccttagtg gcatacgaat atatcaatto agcgttttag tccccattta tacaatacca 300  
 agtgaatttg tggttgatca tatgaacatc taaggatttc aagttttcat ataggcattg 360  
 aattcctcta ttctctatgt caactatttc tac 393

<210> 16788  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16738

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 gtctcaagaa gctgtcact ttctgaactg tagacagatg gagattcctt tccactactt 180  
 gggcatcccc atttgggtca gactctcaaa tcaggtggta tgggagcctt tgatcagcan 240  
 atttgaagct aaactcacta natggaaaca gaaaagctta tctatggctg gcaggggtta 300  
 tctgataaat tctatttga acgctttacc aatctatcta ttatcctctt ttaagttacc 360  
 ccaadgaata gctgata 377

<210> 16789

<211> 443  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16789  
  
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 tggatgtgtg aggtatgaga gggttcacaa taagataaac cgaataatat gtctacaaag 180  
 atctctctca ggttcaagtt caagcaatgt ttggacttga taaattgtga agatgcctaa 240  
 tgcacatttg tgaagtgca gccctgaatc acaaggtata caattgctga tttagagtca 300  
 aagtggagat ttgaggtgtg tgactcagaa tcacaaatga cacaagtgat aatactatag 360  
 attaatgatg tcataactgt ttccacttat tataactgaa ttgggttttg caccaaagca 420  
 tagctagagt gttcatatat att 443

<211> 16790  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16790  
  
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 ttccatgcta tatgtagcaa agtcattgat cctgtcaagt ttgatgagtt ggaaaatgag 180  
 gcgcgaatta tactgtgcca gttggagatg tattttcccc ctgctttctt tgacatcatg 240  
 attcacttga ttgtgcatca ggtagagaaa atcaaatgtt gtggctctgt ttatctacag 300  
 tggagtacc cgattgagtg atacatgaag atcttaaaaag ggtatacaaa gaatctatat 360  
 cgtccagaag catctatttg tgagaggtac att 393

<210> 16791  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16791  
  
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ctctatatgc cttgggatgat tcaaaagtatc caatattcca aaatcacatt ttgagtcaaa 120  
 ctttccaagg ttatccttgg tgcctgaagat gaaacactgg catccaaatg ggtgacagtc 180  
 ataaatgttg ggcttatgtc cctcccacaa tacataggaa gtctttttta agattgacct 240  
 tatataattt atgtctgtta aataataggc atgattggtt cttctgtgga atagtattt 300  
 tgaattaaa taatctaaa gtaattgtct tccatttcc tcaagagatc cagt cct 360  
 ctcaacaact ccattctagt gggatgttct tggagtacac aaattattat aataccattc 420  
 tctt 484

<310> 16792  
 <311> 243  
 <312> DNA  
 <313> Glycine max

<400> 16792  
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 aatctgtacc tgttgcaagg gtctgtggtt tgtgctcttc tgetgaccac catacagacc 120  
 ttgccccttc catgcaacaa cttggagcaa ttgagcagcc cgaagcttat gctgctaata 180  
 ttacaaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaaa aattatgacc 240  
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<310> 16793  
 <311> 386  
 <312> DNA  
 <313> Glycine max

<223> unsure at all n locations  
 <400> 16793

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 atttcacatt gtctgtcca ccatgaaaac ccagatgtc caagaggatc acatatctct 180  
 caaggtcttt tccatttcct tagagggagt ggcaaaaggac tggctgtatt accttgcctc 240  
 aaggctcatt acagcttggg atgacctaa gagagtatcc ttgaaaaaa gtctccctgc 300  
 tccaggaacc acagccatca ggaaggatat ctcaagttat agacaactca ggggaadad 360



cctgtatgag tactgcgaga gattta

386

<210> 16794  
<211> 392  
<212> DNA  
<213> Glycine max

<22> unsure at all n locations  
<400> 16794

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tgggttaca cacaagccat ttcagcagga ggagcataat tgggttgaac accaacaagc 180  
ctatgagttt catcttgaag aaataatgag aaggtatcat caatatctgg agtcggtttc 240  
atcaacaata ttgacctca agcatgggca aaactctctt tgacccccc cagaaatgac 300  
atgacaaaatt cctctttgat ggaagcaaga agtggagcaa cctggccaca attacaacta 360  
tgattggcct tgagttccac cagcttagcc ca 392

<210> 16795  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16795

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tactatttcc ttatttgcac ggtatgtttg gaccaatatt aagtatgta ttgactatg 180  
tgaagtttat aattaatcta ttcatggttg cttgcttcat ggttttcatg gttcttgctt 240  
cttgcctcat gatttggttg atatttttc atgaacattg tatgaatgtt tagttatatt 300  
ttaaatcgca ctttcgcttt ttgttgatgc caaaggggga gagaaatggg attaaatcaa 360  
gaactcacat gagtaattaa ttt 383

<210> 16796  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 16796

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atattggtaa togtattacca gtgtgtttga acgttgaaat tcaaatccaa ttgtgaagag 120

ttaacatcctt tcaaaaaaaat gtgtgtgta aatgattata atgatttggg aatgattat 180

ctgtgataag ttgtgaacaa aaatcaaaaag atgtaaactat tcaaatgggt tcaaatgttt 240

tcaaatgggt aatattcttc aatgggttt ttgtgacaga caaggaagag tcaaaaaag 300

aagttccttaa ctgtcatttt taagaagaac aatcattata atcctttata atctttgaat 360

ctccttgaac atcttc 376

<210> 16797

<211> 411

<212> DNA

<213> Glycine max

<400> 16797

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ttaccagcag caccatctca agctccaaca ttggatttgt tcaatcctc tctttcctcg 180

gcagatccat ctttcaacga gaatcaactt agtcaaacat cccatcttgc atctattgat 240

ttttttctcg atttttctcc gcagccttct actgtaacct cagatgggaa ggcactggaa 300

ttatctgtcc ctaaaaatga aggatgggca acttttgata tgcctcagag aacctcctct 360

actgcacaag tggaaattcc aacctgtta cctcaaatg ctaaatcttt a 411

<210> 16798

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16798

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agttgttgca caacatatgt aatgtctggc ctgtgtttga tcaaatagat caacctccct 120

attaattctc tataagagga aacatctctt gtgaaatag gtgaacctga gtgttgatgc 180

ttggtggtgt aatcacaagg tctagaaact ggcttagaac caagcatgtc aacattattg 240

agaatgtcca gtgcatactt tctttgatat agatttatac caatagaget tctagctaac 300  
 tcaaacccca gaaagtacct aaagtctctt aagtccttaa ttttgaaagc attgtcaagt 350  
 agatntgtaa tcttttgaat tttta 384

<210> 16799  
 <211> 42  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 16799

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 aacgtagtga gtttagtctg ttttcttcc atcaatgaag tatcacgctt aagatgggaa 120  
 gtgtttgcag gagcacgggtt ttcaccaact gaagtaccag ctgcgacctt agtcaatgct 180  
 attgaagcag gttgagatgc aaaagcagca gcccaggctg gagatataat agcatgggag 240  
 gctgaaaga aatatcagtt aacagaagta gcataacgga acagaaaata aaaatgacta 300  
 tcttgataca atgaactagg acaaccatt cccattagaa tataaatact tttagaaaca 360  
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<210> 16800  
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 <212> DNA  
 <213> Glycine max

<400> 16800

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 aggggtgaac ctgggtact agtacctca cctcagagg actacatgtc ctgccttca 180  
 gagggcaca cgcctctgac ttcaaaggac ttcagctctt cacttcaga ggactaacg 240  
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 gaggaactaa cgtctctgac tta 444

<210> 16801  
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 <212> DNA  
 <213> Glycine max  
  
 <400> Inell  
  
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 ttattttac tttgtcttgg ttgtttatgg ttatgagttt taaactcaat tattttgatg 180  
 atatatgatt agtgggtatgt acttttattt ggtattatg aatgacttct tggattatat 240  
 gacattctat gaagtattat atttctagtg tgatgaatgg ttatgtttga ttgttttcta 300  
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 aaaattcaag tagaattac 439

<210> 16802  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16802  
  
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 agagtttcat aagtccaatt tcatgatcaa gtaaaaggtt tacagttttc ccatttgttg 180  
 taatgatggg gacatttttg ccattgattt gtgtcacctc tccatcaatc catgcatcct 240  
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 <211> 432  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16803

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 gagataaagg aagccatttc aaattaaaaa atttgaaatg atatgttttg tttttaatga 180  
 ttaagcaatt atggaatttg atcttcaatg atttctaat tattacataa atagagagac 240  
 taattcatat aacttattat cacttctttg tattcatcta gtctgattttg acacattgac 300  
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 tcttaattctt ggaatataa ggatttttta tataatgaat ttaattcttt attcttaatt 420  
 actataatca ta 432

<210> 16804  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 16804  
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 ttaatacaa attcagattt cctccaatt ttgtgtgaca cttacgctat aaatagacgc 180  
 catgcgcgcg catatgttcg actgcgatca ttgaaaatt acacttcaaa tttctgacct 240  
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<210> 16805  
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 <212> DNA  
 <213> Glycine max

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 gaggacatac acattgatga gaaagggcat aaaggcaag gaaatggtaa tgaataagac 180  
 tctcatattg atgaaaaaa aaaaaataaa tatagatctt ccaacagagt ggagaacttc 240  
 aaaaatcat gctcttgata atatcatttg tgacatctca taaggggtaa caacttgaca 300

ctctctcaaaa gatgogtgcg ataatatgac tttggattcc ttaattgaac ctaaaaattt 360  
 atatgaagcc ataattaatg aacactggat tattgctatg caagatcagt tatatcaatt 420  
 tgaaagaaat aaagtctggg aa 442

<210> 16806  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 16806  
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 gtgaattgag acacgaattt gaaaaaaaga gttttcataa caaaaaggta ttatcttctt 180  
 aaaaagcaaa atcattttat cctctttcaa gagagatata ttcttctctt cttctttatt 240  
 aggaaaaggg attaatagac tcatggcttc ttgttgccaa gaaatctgaa cacataggaa 300  
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 atcaagttgt ttggggactg gacgt 385

<110> 16807  
 <111> 384  
 <112> DNA  
 <113> Glycine max

<400> 16807  
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 acctgcacc ctttgaagat caagcagata cttttcttcc cgggttttgt aaagctgttg 180  
 atgtgactgt aagaattaga gaatattctg gaaaagaatt ataactacc aataataaca 240  
 gaagaattag ttattgaga caatctgtct tataattggt tataaactg taaagaaaca 300  
 gcaatgattt acacgtgtat actgtctagt attataaaca tggaggggagg gaagcaaaat 360  
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<210> 16808  
 <211> 402  
 <212> DNA

<213> Glycine max

<400> 16308

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ttttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 240
ttttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 300
ttttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 360
ttttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 402
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<210> 16309

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16309

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agcttttatct ttgtccccc aaagttcatgt agacttgctc aaaatcgcca agtgaacctc 60
ggatccctgt cagatacaat actagaaggc attccatgca accttaccac ttccttgatg 120
ttttttttt ttgtttttt cttttttt tttttttt tttttttt tttttttt 180
ttgttgagtc gatcagctat gacctacaca gcctcatgcc cactgactag cttggggcaaa 240
ctagatacaa aatccataga tatgtctctc cttttccatt cccgaattta caatggcttc 300
aattctcttg atggctcgtg gtgtctcaac tttagctttt gacatgtcaa acatcttgc 360
acatatt 367
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<210> 16810

<211> 394

<212> DNA

<213> Glycine max

<400> 16810

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ttttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 120
ttttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 180
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ccaagttttt aagttcttcc tcaaaactgt cctaagcaaa gttcccaaag tcttattaac 240  
aacttccgtt tgcctatcgg tttgtgggtg acaagtgggt gaaaataaca atttagtgcc 300  
caacttgcct cacaagctcc tccaaaaatg gcttatgaac ttagagtcct tatcactaac 360  
aatgctcctt ggcaaaccat ggagctccac aatc 394

<311> 16811  
<311> 399  
<312> DNA  
<313> Glycine max

<400> 16811  
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togaactgaa ccaccttttg catactcaga tacaatgcac cataccattg gcttgcgga 120  
tgcaccaatg aaacgaacta tgttagaatg ctttagtggt gccaacattg tgacctcctg 180  
ctggaactgt tgttccatca attgagcctt tgetggatca ttttcaggcc tctccaagat 240  
tttgattgca acatcttcac cattgtaagt acctcggtta agtttcccaa aagctccttg 300  
agcaaaaggc tcaccatata tcagtttctt gatatcaatt gtccactcat caaaattgtc 360  
aagccttca gtcggagaac tattgtccat tatagcttg 399

<310> 16812  
<311> 449  
<312> DNA  
<313> Glycine max

<400> 16812  
tcaagcttgg tatattgatg ctgatgggtg agttcagttg aaagtactag cagcctgttt 60  
gattgacaca ggcatgaac tcttgtcac tgaattaatg tttaatgggt aatcaatatt 120  
tptttcccaa ttatagttta catttcatta tgttttgtaa cctgtttttt tcccttcatt 180  
tcccttcac cattaggtac ttttaatgac cttagaccatc atcaagttgc tgccttgcg 240  
agttgttca taccaggaga taagtcaact gagcatatac aactgagaac agagcttgca 300  
agcctctgc tacagcttca agatagtgc agaaggatag ctgaggtagg tgtttgttca 360  
cttaactga atgactctc tgaattaaac tataaatggt atcacccttt tgcacagat 420  
ataacatgaa tgcaaatgg atataaatg 449



<210> 16813  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 16813

ctcctacaaat agaggaaaaca caaaatgaat ttgaagagaa ttcaaattgc acctctgatg 60  
 gaattcaagt ttccataggt gaggaaaaaa cacccaattg caccgatatgt gaaaatgaag 120  
 tggatggcgg aaaaataaaa atatgtggcc atcgggtttg ctccaataaa tactaccatg 180  
 ttagggtgtc aacaattaat cagttgaagt catatggtea ttgttggtac tgccttctct 240  
 gtttatgcgc ggttagctta actgatcaag atgatgatcg gattgttctg tgtgatgget 300  
 gtgacatgc atatacata tattgatga gacctccgc gaattctatt ccaagatgga 360  
 actggttctg cagataatgt gatgctggaa tacaagcaat ccaccaggt aaacacgcac 420  
 atgaattc 449

<210> 16814  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 16814

ctcctacaaat agaggaaaaca caaaatgaat ttgaagagaa ttcaaattgc acctctgatg 60  
 gaattcaagt ttccataggt gaggaaaaaa cacccaattg caccgatatgt gaaaatgaag 120  
 tggatggcgg aaaaataaaa atatgtggcc atcgggtttg ctccaataaa tactaccatg 180  
 ttagggtgtc aacaattaat cagttgaagt catatggtea ttgttggtac tgccttctct 240  
 gtttatgcgc ggttagctta actgatcaag atgatgatcg gattgttctg tgtgatgget 300  
 gtgacatgc atatacata tattgatga gacctccgc gaattctatt ccaagatgga 360  
 actggttctg cagataatgt gatgctggaa tacaagcaat ccaccaggt aaacacgcac 420  
 atgaattc 428

<210> 16815  
 <211> 418  
 <212> DNA

<213> Glycine max

<400> 16315

tgaatcggac atccgtgtga aaagttatga ccatttgaat ttctcaagag cttccgttgt 60  
tgaatttoga tttctctgac atattatgca ccggaatcgg acatctgtct gaaaagtcac 120  
gttcatttga atttctcgag agtttccgat gtttaatttc gaccttatcg atatatata 180  
acctgaatc ggaacctcagt ttgaaaagtt atgaccattt gaatttgaag agagcttcag 240  
ttgttcaatt tgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300  
ttatgacct ttgaatttct caagagcttc cgttgttcaa ttctgagcgt ctogatatgt 360  
gattcgcctg aatcggacat ccgtgtgaaa agttatgacc atttgaattt ctcaagag 418

<210> 16316

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16316

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gattgagact acctcattca taagcacttg taagagaaga aaataagaaa gtaaaatgag 120  
taaaaatect cccataagtt agatgagaca acttttataa gagttaagta cataagttga 180  
tccaaacagg gtttttagggg aacttcaaat aggcctcaaca aaactaaatg caacagctca 240  
caaaaagcac caatgtagag ataataatgg aagcgcctct caccagaaca tgtagagata 300  
ataatgtaca atgcacaaac aacaccaaga aacctgcaat taaaaacct caaaacccaa 360  
ttgattctaa agaaatcgga taaaagttag accatcaata aaatttttaa aaagggaagc 410  
aaaagtcaaa acttttccat t 441

<210> 16317

<211> 400

<212> DNA

<213> Glycine max

<400> 16317

agcttatgct gcaaatattt acaatagacc tctcaacct cagcagcaaa atcaaccaca 60  
gcagaacaat tatgacctt ccagcaacag atacaacctt ggaaggagga atcaacctaa 120

cctcagatgg tctagccctc agcaacaaca gcagcctgct ccttccttcc aaaatgctgc 180  
 tggcccaagc agaccataca ttcctccacc aatccaacaa cagcaacaac ccagaaaaca 240  
 accaapagtt gaggcctctc cacaaccttc cctogaagaa ctgttgaggg aaatgactat 300  
 gaaagacatg cagtttccac aagagaccac aacctcatt caatcttaa caatcagat 360  
 aggaatcttg gttacccaa agaatccaca atagctctag 420

<210> 16318  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 16318  
 tctggaaaat tgaagttcgt ttttataacc ttttcattgt aactttcaaa catattattg 60  
 agctcattta caataattta atgtagtcca aaatttaaac acatgatttg agattttaga 120  
 aatgatatta atctgtatct agtaatgaat atcatgtttc gtaactatat tagctcttat 180  
 atttcataat tatattttct attattcctt tgaaacaatt tatacttcaa tgttggttctg 240  
 agactcctca aatctatttg tgetgcaata gttcaactat ttcatttgaa ctggattggg 300  
 gtagttggta tgaaattggg ttacctgaat tegtacaaa taaagtagaa aatttatata 360  
 taaattgttg gatggatttt gttggacaat tgtgctataa gtagtacata tacatgatca 420  
 aacaaaacat gataa 435

<210> 16319  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 16319  
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 gactctgcta tcttcaatcg actttttgtg gagcggggat acaagtatcg cctgtttaag 120  
 gtgggtgaat ttgaacttcc ggggcagcag tgtgtggttt acttggatct gaagcgggag 180  
 dagtgcacca atttgttccc atctggccga gtataattcc aggcattcca ttragggtga 240  
 caagggtttt tcttatccag acattgcacg atggacccac agagctcttt ccattgcttt 300  
 ggccctgttt taggaatgca ggaaaaggcg tcagttagct ttgccttga ctatgagttt 360

getgctaggt caaggccaac agaggaattt gttagsaagt acacatgcaa ttatgtattc 400  
ac 412

<210> 16820  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 16820

tagcttatgc ttgaaaaaa gtctaagtga gtctacttg tatgtcaaga agagggatgt 40  
tgaatagtc attgtttct tgtatgtga tgacttact atgacaagaa gtccaaggga 120  
gttgattgaa gagttaaaag gaggaagaa agaagccttt gaaatgaatg atcttgga 180  
aatgtcttt ttcttggta tgcaggtgca acaagataga ggtgaagtct ttgtaagtca 240  
agaaaaatat gcaaaggaaa ttcttagaaa gtccaagatg gaggaatgca agccaattgc 300  
aacgccaatg aatcataagg agaaattcag caatgaagat ggagctgata acgttgatga 360  
aaaactgtac aaaagcttaa tatgatgtc 389

<210> 16821  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 16821

tcttagtttc aatgatgcag atgagtttgt ggctacttca tgcactcttc taatgaactat 60  
ggcatcattt ctggctctaa actgttgaga gtgggaaacc atattctcaa cttaatttct 120  
ggcttcagca ggggtcatgt ctccaagggc tccactctg gcagcatctc tcatacttct 180  
ctccatgta ctgagtcctt cataaaaaata ttcgagaaga agctgcttag aaatctagtg 240  
gtgagggcaa ctggcgata gttttttaa tetctccag tattcatata ggctctctcc 300  
actaagatgc cttaatgcta aaatctctt tctaattggt gtggtctctg aagtatggaa 360  
aatttttct taagaatact ctcttgaggt catccagct cgtgatggac c 411

<210> 16822  
<211> 376  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        16822

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agctttaagg tcaagagggc tgaaggatga tacaacttgc ctggttgtag atattattcc   60
tcagatcat ctcgtgttgc caacaattcc aagaaagaaa cgttaagttg taacttccg   120
ttcttttggg aaagaattct aadactctac aaapaaaggg accaataagg ttctttctgt   180
ctgtgttgty gagggaattat tgaagagagg ttctgcaatg cttacagaga ggttaactgg   240
accataactg cttaaatttat atttgcattg tgtcatttga agtttaattg gtcaccatca   300
ctgtggaaag agagaaaaaa tgantccttt ttcacaatac atctatcttt gattctntaa   360
atttoggact taaaat                                     376
  
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<210>        16823  
 <211>        455  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        16823

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gtaggcctag gatcttcttc atcaatggat tcttttgcct cttggaagat gtatggcagc   60
gtaatggaga aggaagagag agaggagacg ccacttcaag gagaagatga gtctagaaga   120
agctcaccac cataggaggg catgaataag agcttgaggg aagaagaaga tgaatgaagg   180
gagaggaaga gaagagcacg aaattttgtg ctctaaaaga gctataaaat ctgaagttta   240
attttcaaat gatcaaagtt gaaaaaatgc acacacatgg tctctattta tagcctaagt   300
gtcacacaaa attggatgga aatttgaatt tctattcata ttctacttga atttgaaatt   360
aaatntgtgg agccaaaatt tctaataa tgattagtga attttagcta tggttcagcc   420
cactaatcca agatcaagtc caagaatctc cacta                                     485
  
```

<210>        16824  
 <211>        402  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        16824

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catgttgnct tgggtttaaa ttctgagcgt ctcgatatat gacgggaactt aatcggactt   60
  
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ocgagtaaaa tggtattgtc gctcgacttt gctacgagct tgggttttaa aattcgagcg 120  
 tcaagatata ttaagggaact caatcagact tccgagtga aatgtattgt cgttcgaatt 180  
 tgcacgagc ttgggtttta aaattcgagc gctcgatat attacgggac tcaataggac 240  
 ttcacagta aatagtaatt tgggtcgact tggtaagag cttcgatttt aaaaatagag 300  
 cttacataata tattaacudda ctcaatcaga cttccgagtg aaattttatt ggcctcgaa 360  
 ttcgatacga gcttcggggt aaaaatcgag cgttcgata ta 420

<210> 16825  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 16825  
 atatatcgac gttcctcgaaa ttcaaaacga agctcctaag caattcgaa gaccataact 60  
 tgaactctga agtcgatttg agtccctgca tatatcgaga cgttcgaaat ttaatacaga 120  
 agctcgggga aaattaaaag acaataaact tgtactcgga tgcctgattg agtgcctgaa 180  
 catatcgaga cgttcgaaat ttaaaaactga agtccgagaa aattcgaaag acaataaact 240  
 ttaactcgga agtcagaatg agtccctgaa tatatcgaa cgtccaaatt taaaacagat 300  
 gctcgcggaa attcttacac aataaacttt cactcgaagt gcgattgagt ccgcgaatat 360  
 atoga 420

<210> 16826  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 16826  
 cgacactatg aaactcagct ttgacgatat gttagaactg cttttgttgt taaactccaa 60  
 ctgggtggaga agcatgccag aaataccgaa gtaattatat ggcctcctag ggtctatata 120  
 tcagtttgaa ggagaagtaa gcttttttca tggcactgct ctttatgttt tttctcttgg 180  
 ctttgagaaa atactaagta ttgaattct tcagaggcaa gatccttgaa gtactgaaaa 240  
 actcccccada aaagagtatt caagttattg ttgcgactga ttggtgaggt atattagpac 300  
 ttggagatct tgggtgcgaa gtaaaatata gttgtagctt cctatatctt cattacacac 360

agagacatta gagtaacata attttt

336

<210> 16827

<211> 404

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<221> 16827

acgttctgag cctatgntaa aaaaaagatg ttgaagaagt tgacttgact atcaagtata 60

agaaaagatt ttgtcttagt gataagcact tgattccaag tgtttcassa ataaatgaca 120

agagtttcac aagtcacaatt tcattgatca gtaaaaggct tacagtcttc ccattctgtg 180

taattgatgt gagatttttg ccattgatct gtgtcaccct tccatcaact catgcacact 240

caggatccct aacccaaaacc tgtgatccaa cgatgatgtt cacaggtgtt cctgaacca 300

atcacacaaa ggcacagaaa agtgttactg ttaacacatg atctgacagc aaaaatgttg 360

gaaggtacca acaacaacca acaaacagcg cagagaagac tccc 404

<210> 16828

<211> 401

<212> DNA

<213> Glycine max

<400> 16828

agcttgcact atatgctatc gacaataaca ttccactcgg aagtcgcatt gagtcccgta 60

atatatcgag acactcgaaa tttaaaaaccg aagctcgtct cagacgctaa cgacaataac 120

atttccactc gaagtcggat tgagtcacct aatatatcga gacgctcgaa atttaaaacc 180

gaagctcgta gcaaatctca acgacaataa catttccact ggaagtcoga ttgagtcacc 240

taatatatcg agacgctcag aatttaaaac cgaagctcgc agcaaatgct aacgacaata 300

acatttccact cgaagctcgc atggagtcgc gtaatatatc gagacgctcg aaatttaaac 360

cgaagctcgc agacatgct aacgacaata acatttccact c 401

<210> 16829

<211> 415

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 16829

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gaatttgota ctagcttcgg ttttaaattt ctagcgtctc gatttattag gactcaatcg 120  
gacttcggag taaaagta tggcgatcg atgtgttac gatcttcggg ttgaaatttc 180  
gagcgtctca ttaggttacg gaaatctt gacttcoga taaaattt attctcttt 240  
gaatttgota ctagcttcoga ttttaaattt ctagcgtctc atatgttac aggaattca 300  
cgaatttcg atgtacaagt tattgttgtt cgaatttggt accagcttct attntaaatt 360  
tcagcgtctc ctagatatta cgcgactcac tgggaatttc gagtgaagaag ttatt 415

<410> 16830

<411> 401

<412> DNA

<413> Glycine max

<420> unsure at all n locations

<400> 16830

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tcaagaaatt ntgcgtttct tgattcgaca accctagtgc tatgtgatgg acaatagaat 120  
ctataccctt tggactttnt agcatatcca atgaaatacc cactaatagt ccttgggtct 180  
agtttcttct cttgtggatt ataaactctc acttcagatg ggaatcccca agcgcataa 240  
tgtogcanac tgggtttcca acctttgaat aactagaaag gtgtctttta gacagccttg 300  
gttggaaccc ggtttaatat atatacaacc gtctttaatg cttcaatcca caagaattga 360  
ggaagtnttt tattacttct catactttnt atcatgtcca ttaaagttcg gtttcttctt 420  
t 481

<410> 16831

<411> 397

<412> DNA

<413> Glycine max

<400> 16831

tgagaacctt aggcgggtgt ctatgggttc ttgatattt tgaacaatcc actttgcata 60  
cttgadagga gtactcatta cagtctccat ghatcaacg atgactccac cagcatataa 120  
aaggtctagt cttgtgcaca tcatatcgta aactaccac caaactcttg aactttgcat 180



catcaacatt tcttgccttg tccaactttg ataacttatt tctgcaactca atcgggtgac 240  
 caattgggctt gcaagcatcc atcttgaatc tattgagcat ctgggtgtgtg acatagccct 300  
 ttcacactta cgagatggca aagtggctct gtgagtgggc gatgaagatg gtgagagctc 360  
 tttctgagca tttttagtg tcttacttc tttttagt

<210> 16832  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16832

tctagcgtac cggctatngg tgcacataah atcccaaat ccaatccctc ttattaactag 60  
 ctattttgaa tcttttagtt cctgaatgta caaccttcac attgttactc gtccccgtat 120  
 ttgtttctctg caaaaaagaa aattaatctg aaacaattca ggcctgaattg ttatcgttat 180  
 tattaactga accataagga ataacagcta aacaagtaat ttaaaatgta acttttaaat 240  
 tatgtgggtat tcttttaatt acaattttac ttcaatatct aattttgtta atctacttag 300  
 gtctgtgttt aaatataaat atgaatttaa aggtgatcta ctgataatat aaagtaacttg 360  
 ctatccacaa attatgatac ctatcattnt caattntaac ttaattntat aaatattaat 420  
 aaatgtataa taa 433

<210> 16833  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16833

ttgtacgggc ttaagcaggc ccccaaacaa tggtttgaat tactgcaatc tactatcttc 60  
 aagccctttg tgatgcaaac tgggcacaa atgttgatca ctgaaggaga atttcaagtt 120  
 ttgcacataa ttggggccct taccatatac cttgggtggac ctgcaagatc aagtgcacaa 180  
 gcaaaatata gtagtttggc ataaactact atagaattat cctggattga gaccatgttt 240  
 aatgagttgt aagtttctt caacacactc attgtaattat gtgacgacaa aagtgtttgt 300  
 gctcttcccc actaaagta gttattgaca actgttgaca cctaaactca tagatttgta 360

acacaaaaat tagtacccta agaataaaag aatatntaa tntggatatt gttcaatgaa 420  
agagtaaaat atag 434

<210> 16834  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 16834  
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caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatcgtctcg 120  
atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt cgaatttgcg 180  
gagagcttca acattcaatt tcgagcgtct cgaagtttta tgggacttaa tcagacatcc 240  
gagtaaaaag ttattgcgtt ttgaatagc tgagagcttc aacattcaat ttogagcacc 300  
tcgatatatt acgggaactc atcagacatc cgagtaaaaa gttatcgctg ttgcaatttg 360  
gtcagagctt caacattcaa ttggagcgtt atacatatat t 401

<210> 16835  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16835  
cttggaaagga gatcaacttg atgttctatg cctcttgatt gtggtagtcc atgaggaatc 60  
tcacataggaa agacatttct aaattcctgc aataaggggt gaacactagg agaaatagaa 120  
atagtaaaact cattagaatt atgagttagaa attttactgt ctttgcaata ctgtagattg 180  
agtggttcat gaggaggtaa cattttcttc acttcaactcg cctctgcaaa ataattaaat 240  
ttctctctcat gtgtatcaat cttttctctg gggtatcac tctttttcat attccttttg 300  
ggtgcctcac tattatcttt ccttgggtct ctctttcttc tcattctgat ttggctatca 360  
cacattcttc taggggata 379

<210> 16836  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 16836

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tgaagaattc attttgcatc ctgagatga gtagtcata gaggctccat gttatcaattg 120
atgattccac tttcatatad aatgtctagt ttgttcacac tcaatctata aattaccac 180
ttaaatttg aattttgag catccacgtt tctgtcttgg tggaaatttg ataactaat 240
tttgcaactca atagggtgttc caattgggtt gcaagtatcc atcttgaatt tattgagcat 300
ttgggtgtgtg acatagacct ttccacttta ggagatggca aagtgtcttt gtgagtgggt 360
gatgttgatg gngtgagctc ttgttgaaca tgttgaggtg tcttatcttc ttcaagt 417

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<210> 16837  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16837

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ntagtgcatt taatccactt atgaatagac cccatcttcc tcataatata aaactagaaa 60
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agttattaag gctttgtgga tcatcttttt ttgagatgag aatgataaac gaaggattnt 360
ctctttcttg aattgtcca ttttccaaa actcttgcaa catatttata aaatccacct 420
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<210> 16838  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16838

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 aatttttagtt aaaacttgat ttttcatact aatttttggt cgatttccaa attgcagctc 240  
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 ttttaactgtc ttctctccaa tttgaatac atttttactt tcttaactat tttttttt 360  
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<210> 16839  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <40> 16839

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 gatcttctac atcttaggtc ttcccgctcc ttcatctggc ttatgttctt catgtagcat 240  
 ttagactgaa tgactctatg aaattacgtc gctacttcca catggtagcg gtaacgtatg 300  
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<210> 16840  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<40> 16840

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 ttttaataaa aagtggctcg ggggtatgtt aaggaatcgg tttactacag aaacacgact 180  
 tcaaaaattc agggacttga gaatgcacaa aaagacgggg agactcaata gtttttcaaa 240  
 aagagatgct gctatattga agacacattt agctcatttg gaaacatata ttggcggcat 300

taaatatatg aagggggttac ctgatattga ataatcgtcg atcaacaaga agaatatatg 360  
 getettogag aatgtataac ttgggaaatt ccaacaattc gttcaatoga taaaaattgt 420  
 gacccggacc tggcgatat ttcaattcca gctaatgatg a 461

<210> 16841  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16841

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 tcatgaggag taacaaggaa aaatactcca gagtcaatta tccatatata ataattcagat 180  
 gcaatattaa aataattttc attacggata aaaaaaacat tctcatcatt taatgacaga 240  
 gaagtatgtg ttccaccttt attctctctc ttggggtcaa tccaattaga atggatagtt 300  
 ccagtcttct gatctttctt caagaatcta cctcaaaact tcttatgggc cgaactttccg 360  
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<210> 16842  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16842

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 tctttcagct actacatcca tgctagggtga ccacgacatg ggttactatg ggacgatttc 180  
 acattctctt aggtacctag caaaaggccc cggacgttgt tcaattgaac cgtcatatct 240  
 gccatagtat tcaccaccac ggtcatatct aacactcttg attcttttgt tgagttgatt 300  
 ttcaacttca acntaaatg ttgtgaacac atccagagat tgttatatt catgtataag 360  
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 ccattg 461

<210> 16843  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<23> insure at all n locations  
 <100> 16843

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ccttgatgg aggaatcaac ctaattctag atggtccagc cctcagcaac atcaacagca 300
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cacaacaacag caacaacccc agaaacagcc aacagttgag gcccctgcac aaecttctct 400
cgaa 404

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<210> 16844  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 16844

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cctttccatg cagcaacctg gagcaattga ccagcctgaa gcttatgtct caaatattta 180
caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgaccttcc 240
cagcaacaga tacaacctg gatggagya tcaacctaac ctccagatggc ccagccctca 300
cacaacaaca caacagcctg ctcttctctt ccaaaatgct gctggcccaa gttagaccata 360
cattctctca ccaatccaac aacaacaaca accccagaaa caaccaacag ttgaggcccc 420
ccacaacct tccctcga 438

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<210> 16845  
 <211> 393  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16845

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gtctttga ttcaaga taaatcaaa gctatgag ccttcaaac cttcttga 180  
tattgctat tttctacat tgggtgagtg gggatgttga aaagtgcac atcgtttgcc 240  
tcaattctga ggggtcaact tatatactta ttgggaaact ttaacttaaga ctaatcgatg 300  
ttaatgaatc tatgatgaaa cctaacaact tgaacgaag agacttgctg gttgctaact 360  
gtttcaaaagc ttgggtattt gtgcatacaa acc 393

<210> 16846

<211> 413

<212> DNA

<213> Glycine max

<400> 16846

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agacygtgat gaaactgatg atatccatga aatgatcct attagagaat tagacatggc 180  
tcttgacgta gctcctatgt ggagcttgta ggccttgga atcttctcgc aatggagtc 240  
tttgccttct gaagatgaat gacagcagaa tggagaagga agatgattgg agatgccact 300  
tcaaggagaa gatgaatcaa gaagaagctc accaccatag gaagccatgg ataagagctt 360  
gaaggttggg gaaaatgagt ggagggagag ggagagaaag agcatgaaat ttt 413

<210> 16847

<211> 410

<212> DNA

<213> Glycine max

<400> 16847

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cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcactccac 180

cactttttaa aacagttgaa gagaaataaa acacagcatt tataccagat agctgttgta 240  
 aagbaaatag gggtgatcca ataaaaaaca sigbaaaacg aacttgtgaa taaaatataa 300  
 ctttgggaaa cctaaggaaa ccagtgaaca gataaacaac atggcaataa cactcacaag 360  
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<41> 16848  
 <411> 412  
 <412> DNA  
 <413> Glycine max

<423> unsure at all n locations  
 <430> 16848

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 gtgaattgag agaccttggt atcatgtggg ccttccatac cgggcgtcaa cttgactggg 180  
 cacacttagt cggatattgc atgcataagg cattggcatt aaatgggtcca ttgccatata 240  
 cacaccttgt cactctcttt ctccgccatt ttcaaattct tcttcattct gaaccttatg 300  
 tcccaatcaa gagatccttt ttaattgggt gctgctgtga ttgcctcctt tggttaccgc 360  
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<210> 16849  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 16849

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 gacccacaca gtatcatgcc cactactagt cttgggttaa ctagatadaa aatccataga 180  
 tatgctctcc catttgcat ccggaattct caatggctgc aattctcagc atgggcgtgt 240  
 gageraaact aagcctttga catgtcaaca tcttgcatt attcggcaca tcttatccat 300  
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<210> 16850



<211> 346  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16350  
  
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 agctttccct ttagtgcttg agtcaccttt gtaaccattc attgtgtcaa actcaactgc 180  
 aaagatgtgg tttagctcat tcccatcatt ggtggagtta acaaggccaa gataatggcc 240  
 agctcaacc ccaggaaact gtgttgaggg tgcctatggtg aaggcaaygc caaagccacc 300  
 agaaccagaa cttgtggaca caattgagaa aacaaaattg gtgctg 346

<210> 16351  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16351  
  
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 ttgctaagag ttcttcacaa caaaaaggtc ttatcctctt aaaaagcaaa tcatattatc 180  
 ctcttacaaa ttcttgggcc aaattacttg tgattcaata aggaattatt tgagtgtcca 240  
 aattgttcaa tcaatctctt taaagagaga tttctctctt tctctctctt cattctgaan 300  
 agggattaag agaccgaggg tctcttgttg tgaaagaatt ctaaacacaa aggaagggtt 360  
 gtcttgtgt gcttagaact tgtaaaagga atttacaaga tagtggaact ctca 414

<210> 16352  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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aagctcacc ccatgacaaa aaaaagatga aaatacaaaa gaaaagtcct tactacagag 130  
 actactcaaa atgccccgaa atacaaggct aaaacccctat actactagaa tggcccaatat 240  
 acaaggccca aacgaaggat aaacctattc taatatctac aaagataago gggctcctac 300  
 ctaggcatt tgcacaaat atacctaaag gctcatgaga accctagggc cttctcctgg 360  
 atctctagcc caatctactt ggagctctct a 391

<210> 16353  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 16353

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 ctttgcctca gtaaaagctt atgagcttga aaatgaggcc gcaaatatac tgtgccagtt 180  
 ggagatgtat tttccccccg cttctcttga catcatgatt cacttgattg tgcactctgt 240  
 cagagaaaac aaatgttgag gtcttggtta tctactgtgg atgtaccctg ttgagcgata 300  
 catgaagatc tlaaaagggt atacgaagaa tctatatcgt tcagaagcat ctattgttga 360  
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 421

<210> 16854  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16854

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 taatgaattt tttttggagc tgagthagtg gttgtttctt tgagggttga acctgtgctc 180  
 tttagtaaat taatcaagct tgtcaccact aaaccaatcc tagtggcttg aagtagtggc 240  
 tatctagtta gcgataatgt acaatccctt aaatagttta tcttctctgc atgcagtcgt 300  
 gaggttaccg atcgtgtgaa gtctgtatct atggcaatgt tcaagtcaca agaagttgat 360

getcttcaaa atgggggtaa ccaggtacaa tgggtggatta tctnttctat atttgyaat 419

<210> 16355  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16355  
 16356

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 ctatttcaat tccaatgcac gttagaagtt cccctaaaaa tgaactttta aataatgatt 180  
 caaatagaac aatctgaata caaatataaa tcaataataa ataaacaagt ttaaggggaag 240  
 aaaaagtgcg aactcagatt tatacttggtt cggccacacc ctgtgtgcctt cgtccagttc 300  
 ctaagcaacc agcttgaaaag tccacattc ttgtaaaatc cttttacaag ttctgaacac 360  
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 aatccctt 423

<210> 16356  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 16356

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 ctacaatata cctcttcaac cacagcagca aaatcagcca caatgaaaca attatgaact 240  
 ctccagcaac agtacaatc ccgggtggag gaatcatccc aaccttagat ggtcgaatcc 300  
 ttcaaacag tagcaacaag aaccttattt tcaaaatggt gcttgttagaa gcaaaagctc 360  
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 tcaaggtcaa tcaagaatg ag 442

<210> 16357

<211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16357  
  
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 appaaaggtt ggggaggcta caattgagag ggagaatcct tgggtgaatg ctattattgt 180  
 gctcttagga tccgtgggtca caacggatct tgaagtgcac aggggtttggg ttgggggtta 240  
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 catcaccata tatgtttctaa taagttatga atatatagta atattttaa ataggagtat 360  
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<210> 16353  
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 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 gctctccccc aacaaagctg caattatata taaaagcttc aacgtaagat tgattttgac 180  
 aattttataag aactaaagac aaaaactgaa ttatgtgaac atgttaaccc agacaaatca 240  
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 tcccacaatg tctttntaa acagcttcag ttctctcttg tcaagctttt gacaagaaac 360  
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<210> 16359  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16359  
  
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 accttttttt ttacttgtat acatgtaaaa ttttaaatca catcaacttca aatagtgtta 180  
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 tttcccaaat ttttaattga aattcagttt taaatgaaaa aaaagggttat tgtcaactgac 300  
 ttttttata ttttaattga catctcaatt taaattttta atttttaaac ttttaatttt 360  
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 agataatatg taggaataaa tacgtcaatg t 480

<210> 16860  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<230> unsure at all n locations  
 <400> 16860

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 ttggaaaaaa ccagtactta tgtagtgagt gtctttacac gtacaattaa aaaagacata 180  
 actaagttac actaatgttt tatattctgt ttgttaacat ccaaactcatt ttgcttgcac 240  
 gtgaaagcat ctccaagata aatatttget gatgcaatcc tccctaggaa gggaccagtc 300  
 actagagcca tgagcaagag gctccaagag gattangcta gagttgctga agaatgcctt 360  
 aagattctca tgaaccacagg gtagatntct gagcccatgg gccaaaggttg agtccaatta 420  
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<210> 16861  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 16861

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 cagaactttt acatgatagg aaggagacaag agcaggacat attgdaaagt actaaagatt 180

gacccgtcttg atccccccga gctaaaatttg cgtgaagatt ccaccacata tacagaaagt 240  
 gaatgtcttg atcttttgag acggatacat gagggtaaca agtccacagg tggactaaaa 300  
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<210> 16362  
 <211> 4  
 <212> DNA  
 <213> Glycine max

<400> 16362

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 ccacctaag ccaggttcca tgggtgtttcg tgccttcaac gacacccgct gagaggttag 180  
 gggagagatt gacctccctg tacagatagg cctccacac tgtcaagtta ccttccaaat 240  
 aatgggcatt aacccccctt acagctgctt gttggggcgc ccgtggatcc actcgggtgg 300  
 agttgttccc tctacactcc accaaaagtt gaaattcgta gtggaagggc atctggctat 360  
 cgtatcagga gaggaagaca tcttggttaag ctgcaccatc tctatgcctt atgtgga 420

<210> 16363  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 16363

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 ggaagaccca aaagaagcca tcctctgaga caaacatacg gaagaaaatg tcaatattct 180  
 tttatcttcc atattggctc gatcttgatg ttagacattg tatagacatc atgcattgtg 240  
 aaaaaaatgt gtgtgatagt ttaattgaca ctctctttaa cattaattga cactctctct 300  
 aacattatcc gaatgtctc attcttcagg ggcatttgc agcaatagta accacaaaaa 360  
 aaaaactatg ttctctgata aaaaaataga aatcaaacag caatttggtt gctttatttt 420  
 tcccatcaa tca 480

<210> 16864  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<210> 16864

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 gataacata ttcatggaaa tgactctaaa gaaaaagacg aaggaagcaa tgaggattct 180  
 aaagataatg gggctagagg aaataatgaa ctccaagag aatggaaagc ctcaagagat 240  
 catccctctg acaacattat tggatgata tcaaaagggg taacaactag acattctctt 300  
 aaagaattat gcaataatat ggtttttgta tctatgattg aacctacaaa tataaaagaa 360  
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<210> 16865  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 16865

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 gcagaacagt tggcgagctc gcattgatta taggaggctg aattaggtaa ccagaaaaga 180  
 tcaatttccc ttgcctttca ttgatcaaat gcttgagcgc ttggcaggta agtctcatta 240  
 ctgccttctt gatgggtttt ctgggttatt acaaattcat attgctcttg aggatctaga 300  
 aaagaccaca ttacactgac cctttggcac ttttgctat atgaggatgc cctttagcct 360  
 atgcaatgac ctgggtacct ccagcgggtg tatgcttagc attttcagtg actttttaga 420  
 gagtgcata gaggtgggta tggatg 446

<210> 16866  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 16866

gtctattatg ttattgttct ttcaaagtat gaacaaacac tatgattggt catgatagag 60  
pattacagca tataatatat tattacatct ctgaaacgac atacaacttg tgggtgttacg 120  
atcgttgcat agccaaggcg atcctttgct ttgagcaat caaatcttc gttgcaagat 180  
tctctctta ttctgaagg atgacatga gtagctcca tctctatgg gctctgcaac 240  
ttatatatgc attccaacca atgtgcactg ggcattgata caaaagtgtt ggcattttac 300  
ccttgccta taagcaacat gacttagatt acaaagaaat ggcattgaca at 360

<210> 16367

<211> 463

<212> DNA

<213> Glycine max

<223> insure at all n locations

<400> 16367

ctataatact cagcttgagc caaagggaat aagaacttag ttattcaatg taactctcctt 60  
aatanagtgt gttcaatgca aagttaccac tctattccat ccaaccttga ggattgataa 120  
aacctattatg ataagtcttc attaaaattg ttcttgaata ttgcttccat ggtctttgaa 180  
gataagtcct aacggggttt tgaaccggtc tcacatctga ggcagctgtg actcaagaat 240  
tgccaattga aattccagtg ttttggttg gatcagttct gccttgtgca ggcattgtgt 300  
tgactatgtt gggagggttt cttgcaaggt gttgcaattc tgtaacacaa caacaacaac 360  
atgctacagg agatttncat caacttccct gccacacggg tttgggtaac aacaaaatga 420  
taagtcactt aatagccagg agattacatt acactttcac atgcacac 468

<210> 16368

<211> 438

<212> DNA

<213> Glycine max

<223> insure at all n locations

<400> 16368

agcttccccc ctgtgtcaat gggggcaccc acgttcaaaa gtgacccccc ccccccgtaa 60  
tttgctttta aataaaacct ctccgttaa tagttttcaa aagcatcccc ctctgttaaa 120  
tttgcttcgg tgtgaagata gtctagtatt caagcataga tagtaccata atcattgctg 180



agagaattct aaaaatctcg gctaattatta accaattttt atgtcaaaca accaattctga 240  
 caattttcac aaatattaat cattttcatt aatgttaacc aatattattg gcaaatgaac 300  
 aattgtgtga aaaattaaat ggattctata cattattaga tttatgattt ttgtttcttaa 360  
 attaaaaataa agactgttct cttaattata tttttttat tttatgatt caaaataaat 420  
 aaataaaaac ttaagaga 480

<210> 16869  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16869

agctnccaat gtattattat tctntaagca tgtctgtaac atgggtttgtg cagtgccttg 60  
 aaacttcaga atggggccata tgctnccgaa gatatgataa agatgggtag gatgctggag 120  
 aaggagcttct ttttcgagcc cgacctgct ttttcagtcy ttaacatcca ccacattaat 180  
 ggccacacaa tactgatcat gaggggtgaag gcagctcttt cagtgaactgc atanangtat 240  
 gtctattctt aacctgtgtt aagactaaat atcagctgat ggaaaataac caatcatatg 300  
 gtcaattgtg a 311

<210> 16870  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16870

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 actactgcgc tctgcagtgy ttatatttcc cttttcaaaa gagacaatgt cgtgtttgta 120  
 ctgatcactt tgatcacctt tctgaaacca tgagagttaa aatgaagcct gtctcgataa 180  
 taaagaaaat aattaaaacc aatttgccta agtaggagta aatcagagta tatacattgc 240  
 aattttagca atagaaaaga ggaatatgic ttggaagtaa aaatggtaca agatgtctta 300  
 ccacagattt ctaagttcaa atacatggga tcaataatad aagatgatgg aaaaattaat 360  
 gaagatgtca cgcgaaggat acaagcggga tggataaaat agagaaagga gtcaacgggt 420

atcttgtaate gccaagtcce taccaatata anggcaagtt tatcgtacta ctatacg 477

<210> 16871  
<211> 445  
<212> DNA  
<213> Glycine max

<230> Window of alignment  
<400> 16871

agcttggatg ctatccatta tttntgtaag actatgtatt gcattcgaaa tatgtgttt 60  
aggtgccttt tttgtacac tcaaaattct attttgaagt agactaatgt aatgtatcat 120  
gcccctaattg aactacaaga ctganagtty tgtgtttctat tagactggga tatgcgtttg 180  
aaaattgttt tggggattgc tcgagggctc ctttatatgc atgaagattc taggttgagg 240  
attattgata gggacttcaa aacaagcaac attctactaa aattctgatt ggagaactat 300  
acaaaaatta cccctaagg agttgtatct aacttttgc cttantttgt attgttcaca 360  
ctttacataa tcataccaga caaatctctt attttgcctt catttcacat tntttgtaat 420  
gcaatgggta tatgtgtcca taata 445

<210> 16872  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 16872

caggttgagt tctgcttacc acccacagac tgaaggctca accgtgcgtt ctattcaatc 60  
cttaaaagaa ctcttgagag cctgtgtgtt agagtagacg ggtacttggg atagtctctt 120  
acccttgata gagtctacat acaacaatag ttttcactcc agtataggta tggcacctta 180  
cgaggcattg tatgttagaa gatgtaagac acctctatgt tgggtagatt ccagttagag 240  
cattgcctta cgactgagg tagttcacca taccattgaa aatgtcaagt tcatccaaga 300  
taggatgaca gcagcccaaa gtatgcagaa cagctactat gatcagagaa gagaggatct 360  
tgaatttgcg ataagtgatc atgtattctt g 391

<210> 16873  
<211> 444  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16873

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ctggtagagt tcttcttacc acccatagac tgagagnctt tcttgcgcct cattcaatcc 60
ctagaggacc tcttgagaga ctgcgtgtta aaatctgagg ctggtgggaa tgggtctta 120
ctgtggttcc cactacaaat aaatgctt tgaacaaat agggcagga ccttctaaag 180
actgttatgg taagagatgt aagacacctg tatgttgggt aaataccagt gagaacattg 240
tcttaggacc ctagggtggt cagcaaatca ctggaaaagg caagctaate taagaaagaa 300
tgagaacaaac ccactgttacy ttgaagagct accatgatac gagaagcaatg gaccttgaat 360
tctctgtagg ctaccatgta tctccgatag tcactacata cactggggtt gtatggcatt 420
ctagttacaa tagctcacaac ctac 444
```

<210> 16374

<211> 412

<212> DNA

<213> Glycine max

<400> 16874

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ctcaactgaa ttacaaacat tccaattgat tccaaaatgg tgtattttat tacaatgata 60
tggtaatcga ttaccagtgt gtttgaatgt tgaaattcat attcaattgc gaagagtcac 120
atcccttcac ataagtgtct tatgtaatcg attacaatga tttggcaatc gattaccagg 180
gatgtgtttt gaatacaaat cactagatgt aactcttcca atgggttctca agtctctcta 240
aaggetataa ctcctctatt ggccttcttg acctgacttg acgagtctat ataaccaaga 300
ccttaacttg ccttgtaaac acattgatta caatcttata tctcctttga atctctttga 360
acctctctct gaatgtcttc ctatcttctt ttgcacaaagc tttctaaagt tt 412
```

<210> 16375

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16875

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agcttctaat gtataacaaa ctgactctat tttaguggtc aatcattacy ctgcctgttc 60
```

tgaaatgact ctgaatgac acaacttgat tgggttttga gaacacacag accacaaaat 120  
 catctctctg ttaagatcca acaacacttc aggccttcag atttatctta gagatggaaa 180  
 ctggatgtca gtcacacacag atgacagatc ctttattatt aacgctgggtg atactcttca 240  
 tgaacacac aacgctgggtg atgacagatc ctttattatt aacgctgggtg atactcttca 300  
 tttttctctc tttttctctc cgtatctctc tggataaata taaaataata aatataaata 360  
 tttttctctc aagt 420

<110> 16876  
 <111> 435  
 <112> DNA  
 <113> Glycine max

<23> unsure at all n locations  
 <400> 16876

agctttctcat tttctttcac aataaggga aaatgttatt agaactaatt aataaatata 60  
 aaaaagaact aaatgacag ccataagtat gtacttttga tttttctctc aaattataat 120  
 tatggcgaag tcaatcccc tgcaaatgag cgtttcaata gattcttcat ttagtttata 180  
 acaatactca tcaattaccc tacccttagc actaaatgta gaacttgaaa ctactgttga 240  
 tatttgaata gctagtatgt caccgcctat ctttgataaa accttgtatt ttaggetatt 300  
 gttctctcac cactetaaca cactanaata agagttaacta gtttcaggaa tataaacatt 360  
 ctctttaaga taactctcta attctgagtt cactggaggg gtggttctat ttgcacgcac 420  
 aatgttctat atttg 435

<110> 16877  
 <111> 392  
 <112> DNA  
 <113> Glycine max

<23> unsure at all n locations  
 <400> 16877

agcttgaagg tttactagat gcatttggtt acttggtaac ccagctggcc ttgaatcata 60  
 aatcggtaac tgtcgaaga gctgttggtt tttctctctc ttttgaccac cttacatata 120  
 ttttgctctc ttttgacgaa ctttgaacaa ttttgacgaa ttttgacgaa ttttgacgaa 180  
 ttttacaatag aactcttcaa cttcagcaac aaaatcaact acagcagaac aatataaata 240

tctccagggg accatccgtt gttgggatgc gaccctcatt ngaccacttc gaggtacttg 300  
gcaccccatg ttaggcaatt tgtgaagtgc catgacgtgc cgggaagtgc aagaaagcat 360  
tgtagcaaga tccgtgaagt tccggagcat gc 392

<210> 16378  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16378

agctctatca tatgggactg ngaacactct aagggccttt gtccaatgg tataaaatat 60  
agtctcatca tggatttatg gcatgtaatg aaaaaatatt ttttggcatt tcttgatgaa 120  
ttacacataa atgggagact agataaagtg gtcagttagat cttttattgt tctgttaact 180  
taaaaaagaa aacctaatgt ctatggggga taatatatcc ctgatagggt gtttgtataa 240  
aatgttggca cagatgtttg ctaataagtt aaaatggggt attgatgatg ttatttcac 300  
aaaccaatct acttttatat cagggaggaa aatgctggat cgggtactca ttgctattga 360  
ttggttcatg 370

<210> 16379  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16379

tcaagaatca agatcaagat caagattcan aattcaagat tcattattca agagaagact 60  
taatcaagat aagtatgaaa ggactttca aaaactgagt agcacatgga tttttcacia 120  
aacaigttta ccaaaagagtt tttactctct ggtaatcgat taccagatta ttgtaattga 180  
ttaccaatag caaaatggat ttgaaaaagt ttccaaactg aatttacaac gttccaattg 240  
atttcaaaaa gttttaattg attacaatgt ttgggaatc gattaccagt gcctttgaac 300  
gttgaaatc aaattcaaat ggaagagtc acatccttc acataaaagc ctgtgtgaat 360  
cgattacact catttggtaa ttgattacca ggaattgtt tctgaataaa tcandaatg 420  
taactctca aa 432

<210> 16880  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16880

atcctatcctc cctcctat tgaatcgaac gactct gaag aatacggggc cagggggc  
 aattattatag aatagaataa cagaattact ctgatttaaa tccctggcaac cagaagatag 120  
 cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcactccag 180  
 cttcttttaa aacagttgaa gagaaataaa acacagcatt tataccagat agctgttgta 240  
 aagcanatag ggttgatcca ataaaaacaa ctgctaaaag aacttytgaa taaaaataa 300  
 cttctggaaa cctaaggaaa ccagtgacca gataacaaca atggcaaata cactcacaag 360  
 tcacaactat ccagagaca aaccaggaaa aatgcatacc tttagaatga cgaccatgaa 420  
 ngcatttoga cagcttcaca ctatcacta 449

<210> 16881  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16881

agctnntgag ttctgattct tagtgcaatt ctccattctc aaccttttcc ggagccccat 60  
 ggattgagtt ttctgtcatg cgtactccac ctctcagtat ggagccatgc gtagtgattg 120  
 cttagttcaa ttctccattc tcaacccctt ttctgcagcc ccatgaattg cgatttggtt 180  
 catgtgtcct ccactttoga gtctggagcc atgcgtagtg attgcttagt gcaattctcc 240  
 attctccacc ctttgctgga gcccatgaat tgcgtattcg ttcattgtgc ctccaccttc 300  
 gagtttgaag ctctgcgtag tgatttctta gtgcaattct ccattctcaa gctttatcgg 360  
 agccccatga attgagttat cgttcattgc tctccacctc tcgagttt 408

<210> 16882  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16882

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atcagcggga tgcacactcta ctccaaattc ttgaaggata tgttttcaat gaaacataag   60
tataatcacc aagaaaacat tatagtggaa ggacattgta gtcttgggat tcaaaagatc  100
ctccaccca agcataaaga ccttgggagt ataaatattt cttgttcaat tggagaagtc  140
ctcaggaa aagctcttat tcaatggga gcaagataaa atttaattgt ggcctcctatg  180
tgcagaatgt tgggagcgtt agagatcatg cccactagaa tgaactctaca attggctgac  220
cgtccatta ccagaccata tggagtaatt gcagatgtgc tggtaaaagg gaaacatctc  260
atctccggg tagacttctt ggtattggat atttgtgaat ataactgaat ccttgttaata  300
ttggga                                         346

```

<210> 16883  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16883

```

agcttgcaca cttgtcttat tctatatgaa gggtctctgat ttcttgagta gtttgtagaa   60
tggcttcccc tttttgggta gctttgggaa gaacctggac agacatgcta gcctttcatt  120
cagcttcage ttctacaatt cttggatgtt ggttgggttg cgcctgatca gtatggtagt  180
gcatttgttg nggttgggtt caatccccca gtgagtgate atgaagtcca ggaacatgcc  240
ctgtcttacc caaacagtac atttaccatg gttgaggcac atgtcatatt agtgaagttt  300
ccacaagaat tcttcaggt cagtcacatg ttgggctatg ctccgagaca tgtctatgat  360
gtctgacaca tatacc                                         376

```

<210> 16884  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16884

```

ctccttctcd ggttcctgac ccagctatgg taggtgaccc agaataatgt gtatgttgc   60
ttttggatat tggctctggt agagccagta gaacctcttt tcttttga ctggatcttc  120

```

ctcctctgcc ggaggaacta gacaccatag gaggcctcgy gaattttctg taaaaattca 180  
 cgggtgagat agtcaggtag agagttggaa gagcccttga tatatttat attaaaaatca 240  
 aagacactta aaattgcttg ccatcttgca aaaatctggt ttgaggcaag gttttttaca 300  
 tctttctgta naattgtctt ggctgatttg agtcaaccc ttactaaaaa tcttgattt 360  
 aatgaatca aatgaattt ggaatgaat aatgaattt ctactaatc tcttgattt 420  
 gttgaatact ttaattgtgc aggattccag tgttntgaag tatatgcaat ga 472

<210> 16835  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16835

agccctatan atttttatat ggcttgaaac aagcactgag gcagtggtag aagaagttta 60  
 atgagtttat cagcaactca ggattcaaca gatgtgacat gaaccattgc tgctatgtta 120  
 agaaatatac taatagttat gttatcctta tctgttatgt tgatgacatg ttgattgcag 180  
 gatctagtat gacagaaatt aacaggttga agcaacagtt ggcagaaaac ttgaaatga 240  
 aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaaac agatcagaaa 300  
 gaattttgaa gttgtctcat gagaaatata tacacaaaagt tgettgcaca gttttacctt 360  
 gaagattcta agaccaggaa taccctcttg ggtctcatt agaagtttca aag 413

<210> 16836  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<400> 16836

tactgttaga actctttcag atcgaatctc atgaccacca tagacaaaaa gtttccccc 60  
 gctattattg gcacaccaat gtagaacaat aatagggagt ctctatcag ctgatgataa 120  
 tgaagcttg acaacattgt ttgacaatct tccaacttgt ttgtcagggg gaaagtccgc 180  
 agttgacaaa tcccaaaaaa ttaatacacc atctacataa cccacaacaa ccacccgacc 240  
 atcattagat gcccaagata cagagattat cctcttacc tctcttcat ggtctaat 300



atcatcagaa agctgaaccc tagagtcatt tggataacta gtcactatct ttctcttcaa 360  
 ttgatgtcc ttgtggcctc taatgagaac aattcgatct tcagaagcat cccagagtag 420  
 catcaaaaca ttttcgtatg caattagcag ttgcacaaat gac 463

<210> 16887  
 <211> 119  
 <212> DNA  
 <213> Glycine max

<423> unsure at all n locations  
 <430> 16887

ttccctgtccc catgatatat ntgagggact tatgatcact atgtttgact aattccttgn 60  
 gataaaggta gtgttgccat gttttcaaaag ccgtactaa ggcataaac tctaatcat 120  
 a agtgaata gtaagggtta ggaccactta gcttttact aaaataagca attggatggc 180  
 ctctctgcat caacacagcc ccaatccaa catttgaagc atcacactca atttcaaaag 240  
 aattttgaaa gtgtggcaac gcgagtatgg tggcattagt tagcttttgc ttaagaacat 300  
 tgaaagcttc ttctgtttc tctccccatt tgaaccaaac attttcttg agcacttcat 360  
 tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa ctgtctaagc 420  
 catgtgtcgc aacctacctc tggcgggga 449

<210> 16838  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<420> 16838

taagctcctt caactgcaca aggtctctaa tatttgaaaa gtattcttgt ggaacattca 60  
 cccgaaggaag acaactgaca aaacttactt tctctctttt ggacaaggta tggcaagctg 120  
 ggggcaagaa aattttcttc ccatcagacc ttggatgcaa ctatgatcat atccccatat 180  
 cagctagatc ttgataggta ttcaagtcac ccttcgtctt gctttgaatg ttaaggagcg 240  
 ttccaatcac actgtcacaa aaaattttct ccacattcat aacatcaata caatgtctaa 300  
 cgtctagatc agaccagtag agaagatcaa agatgatgga cctcttcttc catatgcaac 360  
 ttttactttt atcttctttt tgggtcttct caaatacagt attcaggggtg ttcaacccgc 420  
 tgatatacct gctcaccagt caacag 446

<210> 16889  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
 <215> 16889

atgagatggg atcgggtct agaatctaa tggtaagat cctattctgt gggatgggc 60  
 aacctgagga atggtgtagt cttgctgctg actacttgca ttgtggccc ctcagctcc 120  
 cttccatata cctagggatg cctataggtg ttaacctag aaggaaggty gtgtgggagc 180  
 ctataatcag aaaanttgaa gccaaattga acaaatggaa ccacagaagc atctctatgg 240  
 ctggcagaat taccttaatc aatgctgtct tgacagcttt gcccttgctt tatatgtctt 300  
 atttcagggc ccttcagca gtcataaga ggctcactac tctccaaaga caatttcttt 360  
 ctgggtggaaa cttggaagga aaaaagatag cttggatctc at 402

<210> 16390  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 16390

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 aatttctcaa gagcttccgt tgattaatc cgtgcgtctc gatataattat gtgcctgaat 120  
 cggacctctg agctaaaagt tatgaccata tagaatatct ccagagcttg cgttggtcaa 180  
 tttcatgggt ctcgatatat tatttgctg aatcggacct ccgagttaaa agttatgaac 240  
 atttcaattt ctgagagct ctgctgttc aatttcagag gtctcgatat attatgttcc 300  
 tgaatcgaac ctccagtgga ctatttatga ccactcgaat agctcctcag ctccattgt 360  
 tcaatttgya gcctctcgat atatgatgcy cctg 394

<210> 16891  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
 <400> 16891

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atcgacacgc tccaaattga acaatggaag ctcttgagca attcacatgg tcataaatag 120  
tcagtcggag gtcggattca ggccataat ttatcgagac gctcgatatt gaacaacgga 180  
agctctcaag aagttcatat ggtcataact attaagtccg aggtccgatt cacttttttt 240  
aattatct ac tgggacacaa tttta tttt gaagctcttg acaaatctaa tggctcttaa 300  
cttttaactc ggagggtccg ttcaggcaca ttatatctcg agacgctcaa aattgaacaa 360  
cggaagctct cgagagattc atatggtc 393

<210> 16892  
<211> 456  
<212> DNA  
<213> Glycine max

<210> 16892  
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tctaategac cataaaaagt taaataaaaa taaatgtgga ctttgaaact ctgattatct 120  
tcgttattat tatattagtt aaattaaaca attttagtaa ggacgtctag ctagctcaat 180  
agattgatat agtatttaat ttctgtggat aaaaaaaatc tttgtttgat actttaattt 240  
tattctatct taaaagaaat tttttttatt aatagcttaa ttatataatt cgtcatttaa 300  
ttataattaa aaattccatt gagttcgtca attattaaaa cattaaaatc tcttaattgt 360  
ttaaacaatt tccgttatta tttttgtcc attacagaat caattatata attgagctct 420  
ttattaaatt aatgaaattg cacatgtgat cacaca 456

<210> 16893  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16893

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tatttgctta ccaatgatcg aaattttaat ttgacaacaa tgattgattt ggtactatat 120  
ctaaaggaag cttaataact tgcagccgt tgggtataaa ttttaattaa taattattga 180

tttcattcaa taaatatcta gtatacttaa acattttattg ttgaatcaaa attcctaatto 240  
 tataacaatc attcatatgg ctattgtaaa aatattttgta gaaaagacat ccaatatttt 300  
 atgcaacgga atttttttgt aaaaaagttt acacatttac aacaaaaga attttttact 360  
 ccttgattg tattttactc caatggggtt aaatcaatt taaaa 420

<210> 16894  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<400> 16894  
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 ctcaatcaat tcagttgcct ctccaaggtt ttccaattct atcttccttc ctgctgaagg 120  
 atctaacaac tgcctgggtt gtgggtctcag cccatctata aacatgttca attgaattgg 180  
 ctccagagaat ccattgtgtg gagtctttct taacaaaccc cgaaacctct ccaatgcttc 240  
 actcaaggac tcacagggga actggtgaaa tgatgaaata acaactttcc cttttgcagt 300  
 ctttgaactcg gggaagtatt tcttcagaaa ttctcacaac acttcctccc acgtcttcaa 360  
 atttttgcct ttgaatgaat ggagccactt cttggcttcc cctgccaaag aaaatgagaa 420  
 taaactgagc ctgatggcat catttggcac tcttgcaatc tttat 465

<210> 16895  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16895

tgccttgccc catgatatat ttgagggact tatgatcaact atgtatgaca aattccttgn 60  
 gataaaggta gtgttgccat gttttcaaaag ccgctaactaa ggcatacaa tcctaactcat 120  
 aagttgaata gtttaagggtt ggaccactta gcttttcaact aaaataagca attggatgac 180  
 cttcttgcac caacacagcc ccaatcccaa catttgaagg atcacactca atttcaaaag 240  
 atttttgaaa gtttggcaac gcgagtatgg nggcattagt tagctgttgc ttaagaacat 300  
 tgaaagcttc tctttgttcc tctccccatt tgaaaaccaa attttctctg agcaactcat 360  
 tgagaggtgc tgccaatgtg ctaaaaatct tcacaaatcg tctataaaaa cttgctaagg 420

catgtgtcgc aacctacct tctgc

445

<210> 16896

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16896

tcctntgaaa tctgaagttt aatatccaaa tgcacaaagt tcanaaaaaa tgcacacaca 60

tcacctctat ttatagccta agtgtcacac aaaattggag ggtttgaaat tgaatttgty 120

gagccaaaact ttggagccaa aatttcacta attatgatta gtgaatttta gttatgggtc 180

agccactaa tccaagatca aatataatat tctccactaa gtgtgcttag gtgtcatgag 240

ccatgaaaag catgaaggac atgcacaaag tctgactata tgatgtggca atgaggtgta 300

gtaagcaaat gctcacctgc cctctaaaa ttaattgga ttngcttct accaatccaa 360

ttaaatttat tccaaccac acacatcaaa tatccactta gtgcattgta aattacataa 420

ctacccctaa taca 434

<210> 16897

<211> 470

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16897

tgtagggtta aagtctcagc attgtcacgt gtcattgcaa caatttggtt cagtggctat 60

acgagacatc ttgccaaaac aagtcaggtt caagataact tgcctgtgct tttctctcca 120

tgtatgtgt agcaaaagtga ttgatccagt aatgtttgat gagttggaaa acgagaccgc 180

aattatacta ttccagttgg agatgtatt tccccctgct ttctttgaca tcatgattca 240

cctgattgtg catctggtca gagaaatcaa atgtcgtggt cctgtttatc taagggtgat 300

ctaccccggt gagcgataca tgaagatctt aaaagagtat acaaagaatc tatatctatc 360

gaaacatct attgttgaga ggtacattgc agaagaagcc attgaatntt gttcagaata 420

cttagagacg gctaaaagct ttgggtcttc ttagtctcng catgatgaca 470

<I10> 16898  
 <I11> 473  
 <I12> DNA  
 <I13> Glycine max  
  
 <I23> unsure at all n locations  
 <I40> 16897  
  
 tagattgagc tctcacccaa tcttgcaaca caatgttggg tccaagggtta tcaaaactega 60  
 cagtttaagt agactcgtaa gattccata gactcaactc gttagacttat acgagtcac 100  
 ttcataaaa aataataaca aaatatctat aaataacata ccaattaaac attntaaca 140  
 tataataaag cagaatagta aatcataaat ttcacaatac tgaaataacc aagtctagta 240  
 atgcataact actagataat aacttgcaga ttttatagta gtggttagagc attcccatca 300  
 aggat ttgat gttattagag aatacgggtt tgatgttatt agaggtgaga gtttttcaat 360  
 tcaagaaaca cacac 375

<I10> 16899  
 <I11> 375  
 <I12> DNA  
 <I13> Glycine max  
  
 <I23> unsure at all n locations  
 <I40> 16899  
  
 tagattgagc tctcacccaa tcttgcaaca caatgttggg tccaagggtta tcaaaactega 60  
 cagtttaagt agactcgtaa gattccata gactcaactc gttagacttat acgagtcac 100  
 ttcataaaa aataataaca aaatatctat aaataacata ccaattaaac attntaaca 140  
 tataataaag cagaatagta aatcataaat ttcacaatac tgaaataacc aagtctagta 240  
 atgcataact actagataat aacttgcaga ttttatagta gtggttagagc attcccatca 300  
 aggat ttgat gttattagag aatacgggtt tgatgttatt agaggtgaga gtttttcaat 360  
 tcaagaaaca cacac 375

<I10> 16900  
 <I11> 457  
 <I12> DNA  
 <I13> Glycine max  
  
 <I40> 16900

cgcgcgcgcg aaatccctct ccacgcagct gccagagttc tgcttggtcg tccactctct 60  
 ctgcttcccg gaggtccagc ccagcctcga gaaacacacc gaagaggtcg atttccaaac 120  
 ctaagataac tctcagaact tctccaaata cggaaacygt cgaccggggg gaacccgactc 180  
 gttcagaaaac taagccacaa ccttcacag cccttcggag aacattttt gctttatag 240  
 ctccagagac ttaaacacct atggcacttc ctccctggg ggcgcggggg agttccaaac 300  
 gtaagccacc gaatcaaaat tcccgagct tgatttcacc acctactccg acagctccgg 420  
 cgggaggagg cagtctttct cgagctacgg cgagaac 457

<210> 16901  
 <211> 393  
 <212> DNA  
 <213> Glycine Max

<223> unsure at all n locations  
 <400> 16901

agcttctttt gtttgggatg tgtgtcttat cagcgaagat tgtatggtca ctagcagcca 60  
 tattcttaat taattccatg gcttcttcag ggtcttcaa ttntattttt cccctgcag 120  
 aagcatctaa aagcttcttg gattgtggcc ttaaccgctc actaaaaata ttgagttgga 180  
 ttggttctga aaatccatga gtaggtgtct ttcttagtaa cccacgaaat ctttccaaag 240  
 cctcactcaa ggactcgtct ggaaattgat gaaaggatga gatgacagct ttctcttcag 300  
 cagctcttga cctatgaag tatttcttca agtatttttc aaccacttca ttccaagtct 360  
 taagactgtt accttataat gaatggagcc atc 393

<210> 16902  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16902

ctcatgtcaa cgaaggagca aatgctagtg ctcttgggag gttcttcaat tgcttatttc 60  
 tacccttcaa tcaaaagtgt tccattgtct acaggaatga aaagtcaact tgaaaggggc 120  
 cacagagaga atgacaagat cctacaaaat atggccaagg atcacaagga aaatgagaac 180

aagaatgggg tgaaggacga ggatattatt gatattcttc tcanaactca naagagagat 240  
gaattggaaa ttccttggac tcacaacaac gtcaaagcac tcctctgggt tagtatgcaa 300  
ttctctttta cattacttta agattcccat gtatacaact atatacgtgc atagatatga 360  
aatttgcga tataataact tcaacttca tatatatga gagagagyya gagagagaaa 420  
atgagatg gattattaa taaata 480

<210> 16903  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 16903  
acacgtgaca tcacctatgc aggaagtgtt tgtgcaaat atcaagccaa tctaagata 60  
atctacttga atcaagtga gagacatctg aaagatgtat atggcaccag cgaactatgg 120  
attatgtact gccatcgttc agatccatcg ctggtcggga atcgtgacgc tgattgcgct 180  
ggacgtgcac acgacagaaa aagcacttct ggagaacgtt cctattgggg aaccaatcct 240  
atatacggg tcacaagaa gcagaactgt gtgtcctatc tactgcagaa gcgaggtata 300  
ttgcagcagg agacactga cacaact 327

<210> 16904  
<211> 374  
<212> DNA  
<213> Glycine max

<22> unsure at all n locations  
<400> 16904

agccttgatg caccatttgg agagggttaat gaaacaacga gatgatgggc tccatgagag 60  
gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120  
tgggttctct agacaaaacc gaattgatgg tattaaactc aacattcttc catttaaagg 180  
aaagaatgat cgggaggcct acttggagtg ggagatgaaa atagagcatg tattctcatg 240  
caacaactga ggaggacaaa aaggtgaagc ttgcgcacca cgggaatttcc gaactatgctc 300  
ttgtgtgggt gaacaagctc caaaagagaa gagcaagaaa tgaagagcca atggttgata 360  
catggacgga gatg 374



<210> 16905  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<222> unsure at all n locations  
 <223> 16905

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tactatgaa ataaagctg agt a taat caataat at tttactgatt atctgattga 60
gtcatgtaat atttcgagac gctcgaaatt gaatacggaa gctctgagca aattcaaaacg 120
acaataaatt tttactcgga tgtctgattg aatccccataa tatatcgaca agctcgaaat 180
taaatcttga tgcctcgagc aaattcaaac gacaataact ttttactcgg atgtctgatt 240
tagtctctga atatatcgag acgcttgaaa ttgaatacgg aagctctgag caaattcaaa 300
tgacaataac ttttactcgg gatgtctgat tgaatccat aatatatoga caagctcgaa 360
atagaatctt gatgctctga gcacattcaa acgaccataa ctttttactc ggatgtccga 420
tagagctctg taatatatc 439

```

<210> 16906  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16906

```

atctgctcgt cttgctgata tttatcatgc acactnttct gatgatgacc tangaacaat 60
taggyatcaa cttgaaactt atgtgcttca agtgagaaga aatgcttctt tgtccacttg 120
tgaagatggt caaagtttgg ctatgaagat gggttcagact gagaaacatt tgggtatttcc 180
attggtttat aaacttattg agctagctnt gatattgccg gtgtcgacag catcggttga 240
aagagctntt tcatcaatga agattatcaa gtctaaattg cgcaataaga tcaacgatgt 300
gtgggtcaat gacttgatgg tatgttacac cgagcgggag atattcaagt cgcttgatga 360
tattgatatt a 371

```

<210> 16907  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16907

```

agttttataa tgttagcagtt ccagggacca tgcacgaacg ggcgatcaat acaaaaagaa   60
taattcaatcc atgggaaagg aatgaaaato acacactntg cctcaactct gctaaagcaa  120
ttggatgtac agtggtaaac atgggaactt agtcttcat taaatgagc atagttttgt  180
aaatcttca aatctctctt aaaaaaagc aattatgtg gaaatg aca atgcagaaa  240
caaaaatcca agattcaatt caatttataa atgaaatctg gtcagatttg attattttct  300
gatcaagta attctcaatc aagttaacc cttttttaa tgattccgaa tgcctggtaaa  360
atattcttat agcatgctac attnttttac agtcaaaagc tntctctatt ctttntggca  420
atgctacaca                                     480
  
```

<211> 16908  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16908

```

tggtgaagtc taaatagatg gtgactagac atttngtgat tcaaaactcca tagaaggat   60
atagcaacta ttttaattaa aaacaacctc agaattcatt tagttcatat atttcgagga  120
gagctactgg tttgtttgga gtagtgcatt cagatgtgtg tggaccattt atggttcctt  180
ctcttgggtg gaacaatatt ttgtttcctt tgtagatgaa tttagcagaa tgttgtggat  240
ctttcttata aagtcacaagt caaaaaaatt ttcaatcttt aagaatttta agttaactgt  300
tcaaaagcaa tctgaaaaaa catattaaga tacttatgac tgatgggtgga gttgagttga  360
gtatcccttt aaagagtttg aagattattg caaaggatnt ggcattcaac atgaagtgat  420
attaattatg                                     480
  
```

<210> 16909  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 16909

```

tgataaatct atatatgctt taaaacaagc ctcccgcttt tggtaactta agtttcagc   60
  
```

gataatttct tcatttgggt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120  
 cagtgggagt aaaatatgtt ttcttttttt atatgtagat gatattttac ttgtagccaa 130  
 tgatcaagtt ttgtacatg aggtgaaaca atttctctct aagaattttg aaatgaagga 240  
 tcttggtgag gcatctttag tcatcgacat taagattcat agagatagat ctggaagtat 300  
 tttcttttta ttataggaaa ctatatttaa tttatctta aaatatttt tttatattta 360  
 ttttttttta aaatggtatc tttatgtgaa tttgtatagg ttttaatttga aaatatttcc 420  
 aaagaatgac 480

<210> 16910  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16910  
 agcttgtatg gttaaagtct cactgatttc acgtgctcat gcaacaattg ttagtcgttg 60  
 ctatacaaga catcttgcca aacaaagtca ggtagccat aactgccttg tgctttttct 120  
 tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt ttttccccct gctttctttg acatcatgat 240  
 tcaattgatt gtgcatttgg tctgagaaat caaatgttgt gatcctgttt atctaagggt 300  
 gatgtacctg gttgagcgat acatanagat cttangaggg tatacaaaga atctatatcg 360  
 tccaaagca tctattgttg agaggtacat tac 393

<210> 16911  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 16911  
 tcttggatgc ttactccaga taaaactaga ttaggatttt tgctccaaag gaggcgaaga 60  
 tgacatttat cactaaagat acaactttt gctaaagggc tatgcctttt cagcctaaaa 120  
 gatgtagagc ctacatacca atgactgatg gaccgagttt ttaaacacaa aataapacaa 180  
 gacatcaagg tatatgttga caacgttggc ggttaagtct gaagcatagt ccaacatgtg 240  
 gcagatctgc aagaagtcct caaggaactt tacaagtatg acatgcgctt caacccgtgaa 300

aaatgtactt tgggggtagg cagaggcaag ttctctgact tcattgacac tcaccaaggg 360  
attgaagcga accttaacaa atgubctacc atactagaga tgcacagccc gaccaacatc 420  
caagaagtcg agaa 454

<210> 16912  
<211> 16912  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16912

alccttgagc aaattcaggc gacaatatct ttttactcgt atgtctgatt gagtcctcgtc 60  
atataacgag aggttcgaaa ttgaatgttg aagctctgag ccaattcaca cgacaataac 120  
tttttactcg gatgtctgat tgaatcctgt catatatcga gagctctgaa attgaatgtt 180  
gaacctctga ggaattcaca agacaataaa ctttttactc agatgtctga tatagtctcg 240  
taatatatcg agagctcga aattgaatgt tgaagctctg agcaaatcca aacgacaata 300  
acttttactc cggatgtctg attgagtcgc gtcatacatc gagaagctca aaattgaat 359

<210> 16913  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16913

tcaacattca attttgagcg tctcgttaatt ttactgtatt caatcagaca tccagataaa 60  
aatttattgt cgtttggatt ggctcagaga ttcaacattc aatttcgagc gtctcgatat 120  
attaaggggc tcaatcagac atccagatga aaagttattg tggtttgaat tggttcagag 180  
cttcaacatt caatttcgag cgtctcgata tatgaacgga ctcaatcaga catccgagta 240  
aaaaatttatt gtcttttgaa ttgggtcaaa gcttcaacat tcaattttga ggtctctgat 300  
atattacggg actcaatcag acatccgagt aaaaagttat tgtcgtttga attggctcag 360  
agattcaaca ttcaatttcg aggtctcga tatattacgg gactcaattca gacatccag 420  
taaaaac 457

<310> 16914  
 <311> 414  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 16414

gacgattac gaatttatatc cagtcgaaca tatattatta taaatcttat cttttatatt  
 tggatcaaac agaaagatc gacttgatc agtatatgta ctatggcaat ctattgaaga 120  
 atttaattaa taattatctc gacagaatac atatctgcaa gtttcaatat atattttatt 180  
 caaaccaaaa ctatcttata tcaggaatat gagtaattat gtttcaaac cataaatatt 240  
 taaagaaaaa agtaaattag ttogatatag ctataactaa atcatagcag attatcaatc 300  
 aagtcacatg tagtagtgta tcttattgaa atgaaactat ctttgagagt cttatgagct 360  
 aagcaagtta gaatntggaa ttagggtatc aggtggccca tgcattccac cact 414

<310> 16915  
 <311> 419  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 16915

agttttttct tgtttctctc cccatttgaa accaacattt ttcttgagca cttcattgag 60  
 aggtgctgcc aatgtgctaa aatccttcac aaattgtcta taaaaacttg ctaagccatg 120  
 aaaaactctc acctcgggtc cggacttang tgtaggccat tcttgaatag ccttaacctt 180  
 ctcttcacac aattgcactc cttttgaact cacaacaaaa ccaagaaaca caacatgggt 240  
 agtacaaaag atgcattttt caagattggc atacaattgt tcttctctaa gcacagtcac 300  
 gacagattnt aaatgatcaa tatgcaaact aagtgaagtg ttatagataa gaatatcact 360  
 aaagtacacc acaacgaact ttcttatgaa ctctctcaaa tatggttcat agtctcatg 419

<310> 16916  
 <311> 431  
 <312> DNA  
 <313> Glycine max

<410> 16916

tccatcactg tatttggcca gtttcatgat tctctatatt aagaagaacc gatacatcca 60

cagtgcacaaa attatgggtgg aaggcaattg tagtgttgtt gttcaacaca ttcttccacc 120  
 taagtacaaa gaacttggag ttgtcatgat accgtgttcc attggttaagg ttgtgttagg 140  
 aaaagctctc atagacttgg gagctagtat caacttaatg cctctttcca tgtgtgtgtg 240  
 atttggagag atagtatga tattacagc atgacccctc tagttagctt attgtcccat 360  
 agtgcacaa atggag da ttaadaatgt tt gggcaaa n gaaacac ttaga 400  
 agctaatttt gttgggatag acatagaaga ggacgtgat attctctca ttcttggctc 420  
 cccattcatg t 441

<210> 16917  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> Insure at all n locations  
 <400> 16917

tgaacctcat cgcactact agatgactcc acttctctatc ttctctctaa agacaacacc 60  
 aagttaaaaat caatcatcac aattacttgc catcaaagct actacctttg ccataaactt 120  
 ttccccttag gtcataggga gcatatacat taatcacctt tgttggacaa gaggcctcaa 180  
 taacttaaga gggggagaaa ttaagtttca aaatttccca ctaactaact tttaacctt 240  
 tttaaataga taggtctgaa atgcagaaga agaagcaaca atcaatttaa taatgttctt 300  
 taaacatgca agacaaaatt gattgcaata acataaatga gataagggaa gagagaaatg 360  
 caaacctaat tcatatttgt tgggccactt cacatgtcta tgtccagtcc tcaagcaacc 420  
 cacttg 426

<210> 16918  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 16918

tcaatatagt gacactagtg ttgcaacaaa ggagctgtct tagtcttttg gatgggatac 60  
 atatgattct tcatgcagc atgatgttca agaactaaat cgggttctct gtagaaaact 120  
 tgaagacaaa atgaaggtat ggcaagagat ttggaatgtt tgttcatgat tctcttgat 180

gagtgatcat accaaatggt tgttgatgt tatttttttt caggaaactg ttgttgaggg 240  
aactatacaa aagttatttg aaggacacca tatgaattac attgaatgca tcaatgtaga 300  
ctacaaatca actagaaagg agtcatttta tggtaacttc ttatgcattt tgaattcaat 360  
tatatgttta gttttttttt gtaaggaat tctaatag ttatgata tgaatttg 420  
atctcagat tga

<210> 16919  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16919

agctttctga cctgagcatt tgaattgaga aaaagctcat tatcttcacg gcagaattcc 60  
ccaatagcac gtacatcaac aaggttccca gagtctctaa tttgaagaat gtgtatagtt 120  
tgatagcgaa gtgatacaat tgccaatagg tcatcataca agaagacccc catattatgg 180  
gttanattaa cgaagtcatt actgaagacc ttcttgacca agatctctcc atcttcagtt 240  
ctaatttagt aattaatacg tgagaaatgg gaacaatata taatctagag tgaacagagt 300  
atgat 305

<210> 16920  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16920

tgtgcttoga ccaaccacg cccaatttac gtgccattgt gtaagttctt gcttaaaagt 60  
gcaaccttca atgggaaatg taacaacaag ggtatttcta taacaattga tggcactttg 120  
gtggctctct cagattatag ggtcacggaa aactccggtt actggttggg attcgagcgt 180  
gtcaacggag tttegatcca cggggggggg ctgacggcc aaggcactgc cttgtgggat 240  
tgcaagaact ccggcaaaag aaactgcctc agcggagcca cggtatgtta aatcaattaa 300  
tttaactctc atggattgaa cattattcgt tgacatgcac aattctctgc tcccatat 360  
attgttttga ttgatggtg caggttgggt tctggacttg gtgattactg agaatctct 420

agtggggga

429

<210> 16921  
<211> 420  
<212> DNA  
<213> Glycine max

16921-16922  
16921

aaagggtat cctcatttc agaaaatgga ggtgtttaa caagtcactg ctatgctcgc 40  
gttttgctta atccaaacta gccatagctt gttctcttct ccgatactcc tagttaagaa 120  
gaaagacgga aactggcatt aaagggcact aaaggaaatc atggttaaag attgttttcc 180  
tatgcacaac atagatgaat tactcgacga ttggggccaa gcatcatggt ttttgaagct 240  
cgatttatgc caaggatttc atcagatacg tatgggtcaag acttaccttc ataagacagc 300  
tttccaaatg cactagggaac attatgagtt taaggctcatg ccttttggcc ttataaatgc 360  
cctctctact tctcaagcaa ccatgaatga tgcctcccaa ccatttctga ggaaatatgt 420

<210> 16922  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 16922

ttcctttgag aatccaagaa gcattatttc tcttgtttac caaagttaat gtcgctgatt 60  
gaatggcagc aaaaagtgc aaaatagctg tactagagta ttgacatggg tattttttgc 120  
taatttttgc ttgtataatg aacctgaag accacaggag gcaacctaga gtcagaagta 180  
tggagcctac aatccatttc tctaaattgg cagctggaag cgtgcttgta attttgtttg 240  
ctatgtgttg agattgtggg ttgataaggg gcattccttt ataaaggacc aataacaaag 300  
ctccaccaat gcaacacaaa gtcccatga ctttggtgtg accactcttg ctatgcattg 360  
ccactctctc taacctagaa aaatttcaag ccaaaggatc aaaagtattt ttcttgattt 420  
ccacat 427

<210> 16923  
<211> 375  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 16923

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agctttatgg agattcatgc atcaggggaa aatttcactt taaaagtggg tcccaattgg 60
ttcttaatt tttagtttt ccaattggat gtagatcat agtagttgt ttcaatcttt 120
ttatgtgga tttagtaca aaattttt tatatttao tttttttt ccaatgatt 180
ttgatcta tttccacaca gatggggaa gatttcctc aggttttga tttaaacctc 240
ttcttaatt acatccatgg tgagagtggg actacattaa agaattcaa atctatcccc 300
ttatgtgat taagtcana tcaattggtt ggtaaatacc ctatctttca agtgatgtgt 360
ttcagttaga tcttt 375

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<210> 16924  
 <211> 423  
 <212> DNA  
 <213> Glycine max

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tagagagatt cccgatctga gaggttactg ctccgtctgc aacagctctc aggtcaagat 60
aaacaaaatt tgagagattc ccaatctgag gaggaatctt ccccatgaat ccagtatgag 120
agaggttgag gtgagtcagg gaagtcattg tcccaaggaa agaaggaatt gacatacctt 180
ctccaaggta ttcattggcg ctcaagtcca agtaattcaa atgctttaaa tcagccaaac 240
aaggacttat ctctccacca aagctccatc tctataage ttcccaatca tcaattgaaaa 300
tagaattctga agagttgagg tgaagctgaa gaagatggga agtaagggtg tggcagagga 360
ctccatacca ggggcaacag ttggtattat tatgattcca agaccaaagc ctattggaag 420
gattatg 423

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<210> 16925  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16925

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agctttatct taccattag taaaaaaaaa aaaagtggc gacagtggtt tctttatc 60
tttcaacttt ctccggttt ctcaattaaa atggggttaa tgaatgacca ggttatgaa 120

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acaaaattatt gttctcacat anaatttgta tccattoget taatcaacaa catcatoget 180  
 aaagagctta aattgggtggg catcaagaac caatttcctt atagaagaga atgcgcoccat 240  
 tattccaaca cccgtgaaga ccaccataat tgaggtgcta atccaataag tgaaggatga 300  
 attgagagc tttatctca tgttgtacat aagcatagc agaacyaat ccaaaaggat 360  
 ataa

<210> 16926  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16926

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 tgtcatggac tatcgaaaag atttccaagt aacaagaagc atccgatgat gttcgataga 180  
 attcatatat tgttgttgct ttagaaatat atttgttatt taattccaat tatattttga 240  
 ccaatttcat tttaagtttt taacaaaact ctttataatt ntagtctgct ataatatagc 300  
 aatcattgta gagtaatatc ttaaaatttt aatgattaac taagatcagt gtattatgca 360  
 tttcaattaa tataaaaaact tgtatatctc atagtatata aaaacttgca tacttcatag 420  
 gaaatatttg ataa 434

<210> 16927  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16927

atttttttat gtgtctagct actatataaa ataacaacat ctatatgytt attttttaaa 60  
 aagaaaaata gtgaaaataa aaatatgaat cgggtgaatt aaagaaaaag tatagtaata 120  
 tggagaattg agttgatgat gatgacctgc atgaacatag aaccatgcag ggccagagtc 180  
 ttgaatgtgc ctaaaagtgc gtgcgggtgat ggctcccat ggtaacaaaa tgcocccacya 240  
 tatggcgta accgtgccat ggcacactct caacgtcgtg agatccgtgt gctgtggagc 300

cgaaggaaccc gacaatacgt canaggtaac aatggaagac agatcgggtgg aagtagttgg 360  
 atgaatgggtg ggagagtagc cctgaacgta 390

<210> 16928  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 16928  
 tatctcttcca aatcattttg aaaaggcagc aactacctat atatatgggg gtctgatttc 60  
 caaaagcaay agagagatat tcccagagaa cttcattgtc aaatgctctc tcaacaactt 120  
 ttggggcgaac acttgccaat ctattaagag ttcattccaag aacttcaaatt gtaatatctt 180  
 tcttttaaaag agagaattct tcttcttctt attaaaagag attgattaat ggaccgagag 240  
 tctcttaagt tctaaggatt cctgaaca 268

<210> 16929  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 16929  
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 cagtgggagt aaaatatgtt tctttttttt atatgtagat gatattttac ttgtagccaa 180  
 tgatcaagtt ttgctacatg aggtgaaaca atttctctct aagaattttg aatgaagga 240  
 tatgggtgat gcatcttatg tcacgacat taagattcat agagatagat ctcgaggtat 300  
 ttgggtctta tcacaggaaa ctatatataa caaaattcta gagagatttc agatgaaaga 360  
 ttgttcacca aatgttgctc tcattgtgaa gggatgtagg ttttaatttg accaatgtcc 420  
 aaagaatgac t 431

<210> 16930  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 16930

atggcccaat atagctttga aattntctcc cctttgttca caaccaagtt acccttggtg 60  
agttttcaact ttccagaacc atggtgggtta tcataaccag catcatcaag tacctgcaca 120  
tgaatcaat taagctaat attagacca tctttcactc ctttggtaa caatcgatn 180  
tccatgttgg ttgcacaaa aacatcacca aacacatca ctttcaaaa tttatcatta 240  
tccatcttca ttatctaaa atcacctgga ggttaagatg tgaagaactc cttcttgact 300  
ttaacatgca atgtagtac actatcaatt atccacatat tcttatcaga tacaagatta 360  
tgcgaatcag ggtcatggag aataacaaga tcacacttgg tagcagtagt cacacagtca 420  
tcacatgat 480

<210> 16931

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16931

agcttcgtgc ttaaataatgt atggcaaaac ttcattactg ttgttcaaga catagaagtg 60  
agcttgtaac aaatcttcta cacttggagt gatcacctgc agtctctctg aacccttacc 120  
aaccactctg tcacatgoc gacactcang aagcccaaca attttagcct tctctaagta 180  
ttctgaacaa aattcaatgg cttctctctgc aatgtacctc tcaacaatag atgcttcggg 240  
acgatataga ttctttgtat acccttttaa gatcttcatg tatogetcaa cggggtacat 300  
ccaccgtaga taaacaggac cacaacattt gatttctctt gaccagatgc acatcaagtg 360  
aatcatgat 369

<210> 16932

<211> 377

<212> DNA

<213> Glycine max

<400> 16932

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aaattatata aaagtttact aattttttaa aatttattac aatdaattat tcaattataa 120  
tagttgatta aaattggaaa ttgaagtagt gtaagataat aaaaaaggac atatatattt 180

atataaattc tagagtaaaa tatgttttta gtccttaaaa aaattttacaa atttgatttt 240  
 agtcattaaa caatettatt ttgttttttt taatatagaa ataataatgt cacaatatat 300  
 actatcaaga tggaaagatag agtattttta atttagagga gcaaatacag acaaaagaat 360  
 ttatattat ttatattt

<210> 16933  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16933

tgttgacgaa ctatttatgg aaaaacttca ttgtngttat ttagtatata caaatgagtt 60  
 ttgttgcaatt tctgttaacat gcaacctctg tgaacctttt cctcccactc tctcatcatg 120  
 ctgagaacttg ggaagcccaa aaggtttccac cttttcaatg tacittaaac aaaatttaat 180  
 agcttttttt gcaatgtacc tttaacaat ggatgattca agatgggtata tattttctgt 240  
 atacctttt aagatettca ttatctgtc aaccggacac atccatctga aataaatagg 300  
 atcacacaat tgaactttcc ttaccagatg aacaattaag tgaacctga tgtccaaaaa 360  
 tgaaggagga aaatacatct ccagctaaca taagataata gcagtctcat ttccaagtc 420  
 atcttaacttt at 432

<210> 16934  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16934

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 accaacttaa gaagaaaaag aggaaaaagga gtattcatat ggaacaagtc atggaagaag 120  
 gggagagagt gaaccaagaa tagataatca ttgggggagc attaagatga caatccctac 180  
 atttaagggc aaaaacaatc ctgagttgta tttagagtggt gagggaaggt ttgaacatgt 240  
 ctgtgattgc cataattatt ctgagaaaaa aaagatttaa ctagtgtttg ttgaattcct 300  
 tgattatgtt agtatttggg gggatcaact tgtgaactaa angcaagaa atggtgaaag 360

gocctattagt agatgggagg agatgaagac tgtcatg

397

<210> 16935  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16935

tttttgtatc tacatagagt agaagataga tcattgateg atcctccacc ttgttgtgat 60  
aacacaaaca atcatagaga cttctcttga atccttggct ggtagataaag ctatcaaacc 120  
tcattgtacc ttgccttggg gattgtttca aaccatacaa ggacctttgc agttgacaaa 180  
cctaccttcc ttttacttga acttcaaaac cttcacgctg tttcattaga atattttctt 240  
cctaatcttc atggagaaaa gcagtcctga catcaagttg ttcaagttcc agatcttggg 300  
ttgcacttat agcaagcaga acctgatgg atgtatgctt aaccataaga gaaaaaatnt 360  
cgttgaaatc tatntcttct tcttagctga atccctt 397

<210> 16936  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16936

agcttgtatt gtaagaaatg acaagaaact acggaatccg aaatagaatc aatgaagatc 60  
aacaaaagtat gggcttttagt tgaagcttca aaggatataa aaccaattgg ttgtaaatga 120  
gcttacaaga aaaggattgg agcaaattgg aagggtgaaa cctacaaagc tcattctgtt 180  
gcacaagggat atgtcaaaaag taaggtatag attatgacaa aacttttctc ccgtggcaat 240  
gctcanatca attcggattc tttttgctat agtagcatat tatgatcatg anatatgaaa 300  
tggatatgga aaatggtttt acttaattgt gagctaaaat aatgtgtata tgacacaacc 360  
tganggatca cacttctct g 381

<210> 16937  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 16937

ttgtgcacga ttcaactgtga cagtcacaaagt gtcattttct tagaaaaatca ccaaatgtac 60  
catgagagga caaagcacat agatgtgaaa ctacacttca tcatagatgt gattgaatct 120  
tggatgttca apatggagaa ggtttcaaca aaagaaatc ttttctat gttcaaaaag 180  
ttctctata gtttcaagtt caaaca ttttctcaattga tcaatttga agatctctaa 240  
agcajattgg tagaagtgcg gccctaaatc aaaggtaga cacttgcgtga tttggagtca 300  
agtgagagat ttgtggtgtg tgaactcaaaa tcacattgyc tcaagtgaga aggtttttaa 360  
gtgggtgtgt cataactgtg ttcagtcatt ataattgaat taggtttcac accaatgtat 420  
agtc 484

<210> 16938

<211> 430

<212> DNA

<213> Glycine max

<400> 16938

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caagaggctt ctttgagaag ctacatcctt atctatccac cctctatta actaaattaa 120  
ctctctaaa aattattacg gatgaaaata acgcaacaaa taatcaaaca tcaaacataa 180  
ttactaataa tatatatata tatatatata tatatatata tatatatata tatcaagggtg 240  
ttacaactct cccacccctt tagaaatttc gtgctcaaaa ttaccttac tcaaacagg 300  
atgggtgagc ttctgcctc tgaatttcta attcccacgt ggcattctct cctgatgcac 360  
ctcccatat cacttgacc aacggaatct ctttccctct taggtgtggt gtacgcctat 420  
ctctatctt 480

<210> 16939

<211> 368

<212> DNA

<213> Glycine max

<400> 16939

ttctctctgt gcttaaatat gtatggcaaa acttcaattac ttttgttcaa gacatagaag 60  
tgagcttga acaaatcttc tacaattgga gtagtcactt gaagtcctct tgaaccttta 120

ccaccacac c t g t c a t c a t g c c g a c a c t c a g g a a g c c c a a c a a c t t t a g c c t t c t c t a a g 130  
t a t t c t g a a c a a a a t t c a a t g g c t t c t t c t g c a a t g t a c c t c t c a a a a t a g a t g c t t c 240  
g g a c g a t a t a g a t t c t t t g t a t a c c c t t t a a g a t c t t c a t g t a t c g c t a a c c g g g t a c 300  
a t c a c c a t a g a t a a c a g g a c c a c a a c a t t c a t t t c t c t g a c a g a t g c a t a c a a t n 360  
a c a g a t 433

<210> 16940  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16940

c i g a t t n t g t g a g g a a g a t a a c g g t t c a c t t a c t a t c t a t c t t t a t t a c a t t c a a a t a a c 60  
a c a t a t a t a c a t a c a g c a a g a a g a g g a g a g a g a c a g c t t a a a a g a c a a g a c a t a t t g t t 120  
g t c t t c t a c c a t a a g c t a a g c a g g a a a t t a g g t a a g a t a a a a a a a t a g a a a t a c a c a t 180  
a a t t e t a a c a c t c c c c c t c a a g t t g g a g c a t a t a a a t c g t a t g c a c c a a g c t t g g a g c a t 240  
a t a a a c t g a a t c t t a g g c c t c c t t a a g g a c t t a g t c a a a a t a t c a g c t g g c t g a t c a t t a 300  
a a a t t a a t g a a c t c a g t g a c a a t t t c t t t g g a c a g t a g c t t c t c t c g g a t a a a g t g a c a g 360  
t c a a t c t c t a t g t g c t t g g t c c t c t t a t g g a a g a c t g g a t t t g a a g c a a t g t g a a t a g c a 420  
g c c t g a t t a t c a c 433

<210> 16941  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16941

a t c t t a t g a g a a g a t c a a a g a t c a a a t t g a g a g g a a a a t a a a a g t t a t g c t a a a c a a g c 60  
c a a c a a a g g g a g a a a g a a g g t t g t c t t c a a a c c c g g a g a t t g g g t t t g g g t g c a c a t g a g 120  
a a a a g a a a g g t t c c g g a a c a a g g a a a a c a a a g c t t c a a c c a a g g g a g a t g g a c c a a t 180  
t c a a g t g c t t g a a a g a a t c a a t g a c a a a g c t t a c a a a g t t g a g c t g c c c g g t g a g t a t a a 240  
t g t t a g t t c c a c t t c a a a g t c t c t g a t t t a t c t c t n t t g a t g c a g a a t g g a g a a t c c g 300



attgaggaca aatccttctc aagagggaga gaatgatgan gacatg

346

<210> 16942

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16942

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taaaaaagggg aaaggttaata ttgtagccgg tgcctttttc cggcgtcacg cattactttc 120

tatgcttgaa acaaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180

aacttttggg gaaattttta aaaatcgtga aaaattttca gaaaatgggt tcttttagaca 240

tuaaggtctt cttttcaaag aaaacaaatt gtgtgtgoot aaatgtttca ctacaaattt 300

gcttgtttgt gaagcacatg aaggaggttt aatggggcat ttgggggtcc aaaagactct 360

agaaacatta caagaacatt nttattggcc tcatatgana aaggatgtgc agaaantttg 420

tgaacattgc 480

<210> 16943

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16943

gcttgtccgg gaacagttat gcatgagttc atagatgtgt gctttcttgc gtccttcoga 60

acagagtcca ataagtatga caacattaac atgagaagtt ctactgatac actattagaa 120

aatatgtttt ctacatcggg tattttatgac ttccaacatc ggcttttcag ccgatgttga 180

aagtaccgac gttgatagta ttatcggtta catcggtttt tgagaaaacc atgtttaaagt 240

aaaattacca acatcgggta tataaataac cgatgtttgt aatatgaatt acacccagac 300

aatgtatatt aatgttgaaa gtaaacatcg gttcttactg aaaaccgatg ttgttatcaa 360

gaanttttct ctatataatg tctgtgtaga caaccuatgt taacgaatgt ctgaact 416

<210> 16944

<211> 396

<212> DNA  
 <213> Glycine max  
 <400> 16944  
 agcttgaagg taaactagat gctttgggtta acctggtaac ccaactggcc atgaataaaa 60  
 atgagctaac tttgtttc cttgtttttt tttgtttttt tttgtttttt tttgtttttt 120  
 ttgtttttt tttgtttttt tttgtttttt tttgtttttt tttgtttttt tttgtttttt 180  
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 tttgtttttt tttgtttttt tttgtttttt tttgtttttt tttgtttttt tttgtttttt 360  
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<210> 16945  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <400> 16945  
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 ctccacagtg ggccttggca caactccctg cctcctaaat caaacttgct aaggacccac 120  
 caatgcaaca aaatttgcag catcagtgaa caatgtctct tttatataac caaccactgc 180  
 actttctcaa gcccaactct tgggtcaatc caatggagtt tactcccttt actttctctt 240  
 tagtccattg gtccatttta actatacagg cactccacca aacaatacca tggtagagaa 300  
 tgggacaaaag gttgtgggtt tcccttcaa cacaagtgtt gaactagtga tgcaggacac 360  
 cagcattctt ggtgtgaaa gtcacctct ccatttgcct ggtcttaact tctttgttgt 420  
 tg 422

<210> 16946  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <400> 16946  
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 taaaaattta ttgtgttttg gattggctca gagattcaac attcaatttc gagcgtctcc 120

atatattacg ggactcattc agacatccga gtaaaaaagct attgcagttt gaattagctt 130  
 agagcttcaa caatcaattt cgagcgtctc gatatatcac gagactcaat cagacatccg 240  
 agtaaaaaagt tattgtcgtt tgaattggct cagagcttcc acattcaate cagagcgtgt 300  
 tgaatatta cagcgttcaa tcaacatccg gactaaaaag taatgtctg taatttgc 360  
 cagagcttcc aatatt 443

<210> 16947  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16947

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 aacgagacgg cggaaattga atattgaacc tctgaggaaa ttcaaacgac aataactttt 120  
 ttctcggatg ttctgattgag actcgtatta tatcgagacg ctcgaaattg aatgttgaag 180  
 cctctgagctt attcaaacga caataacgtt ttactcggat gtctgaatga gtcccgtaat 240  
 atatcgagac gctcgaaatt gaatgttgaa tctctgagcc aatccaaacg acaataaatt 300  
 ttactcggga tgtctgattg aggcccgtaa tatatcgaga cgtcggaaat tgaatgtgga 360  
 agctctgagc aaattcaaac gacaataact ttttactcgg atgtctgatt gaatcctgtc 420  
 atatatcgag acgtcggana ttg 443

<210> 16948  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16948

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 tcaacttctt ttgtatctca ttggcatgt gcacatgacc aatgcttcca aacactttta 120  
 gatgtgaaat gacgggctta cttccattcc atgcttcttg tgggtgattat cctcatacac 180  
 tctttgatgg agactggtta gaaaggtaaa ctgcacaagg cactgcttct gcccagaact 240  
 cctttggaag tcttatgtgg atcaagaggg ctcaaaaatac ttatgaaggg ggggtcgaat 300

taattattoc taaacctata staataaaga aatcactott ctaacgcttt tacttacgtt 360  
 tctgagagaa tattga 376

<210> 16949  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 16949  
 tgaatoggag atcagtgatga aatgttatga ccattttaat ttcacgagag attcogttgt 60  
 tcatttttoga acgtctctat atgtgatgog ccttaabota acatcogtgt gaaaagttat 120  
 gaccatttga atttctcaag agcttaagtt gtccaattat gagctctctg acatattatg 180  
 ggcocgaatc ggacatcogt ttaaaaagtt aagaccattt gtaattctctg aaagcttctt 240  
 tggttcaatt ccgagcatct ccacatatta ttgcccogaa tctgaccttc gtgtgaaaag 300  
 tcatgaccat ttgaatttct ccgagagcttc caatgtttaa ttccgagoga ctccgatatat 360  
 tataagcatg aatcggacct tagtgtaaaa agttatgacc atttgaattt ctcaagagct 420  
 tccgttgatc aatttt 436

<210> 16950  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16950  
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 ataactcata ataaaatggt atattactat tattattatt tgttctaata aatcatttac 120  
 tattattatt ttaatttatg gtttgogaaa taaaaagaag ataggaggtt tttctagagg 180  
 tgaatgatga gaccattcca tgcctctcca attaagtgtt ttccattgaa tctctatatt 240  
 ttgttcgggt caataacata tttttgttat cagctgggtga tcttattgat gatgagaatt 300  
 ggcctccaat ttctctaata atccatcatg atattgocaa taagataccg attcatgctc 360  
 aaaggctgca atatttggcc ttgcaagtt ggt 393

<210> 16951  
 <211> 389  
 <212> DNA

<213> Glycine max  
 <400> 16951

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agcttggcat tgaacataac tttcttgcac ctagaacccc tcaacaaaat ggagttgttg 60
atggatgaaa tgggtttttg gaagaaattg ctagaacott attaaatgat acttcttttc 120
ttaaataatt ttggttttaa atggaataaa atggaataaa tttttttttt tttttttttt 180
tgaagcttat ttttaagaaa atttttataa aattttttta tggtaggaat ttaaaacatct 240
tgcattcttca tgttttttgg ttcaagtgtt ttgtattaaa caatggaaaa agaaaactta 300
gaaaagtttg atgctaagta agatgaagga attttctttg gttattcttt gcatagtaaa 360
gtttatagaa tatataataa gataacaat 389

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<210> 16952  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16952

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tggaccaatc taagttttgt gcttttattt gttttttgct tagctagtct cttcttaagt 120
aatctccctt gtttttcttg aacaataggt ggcagaacgt aacaatgac ctcaattggc 180
agaattcatt gagagcgagt tcttgatga gcaggtaaaa cttgcagttg aattcatagt 240
atggttggat ttcataagat ataagactcc ttgaccattg tatgtaatac aatactctga 300
actttttacg tcttanaata attgtttgct tttacacgga tcaagaaaat aataataaat 360
aaatgaatga aatagtaatt ntacacaagt aaccttacat tatcattaat ttattttctaa 420
attctataat tggttctcaa t 441

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<210> 16953  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16953

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ttgaggaat caaaagcttc ttgcatctg tcatlaaagt caaactccac ctctttttgc 120

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aadaagttgg acagtggaag ggctactttt ctaaaaatccc ttataaagcg cctgtagaat 180  
 tctgcattgac caagaaaaga tcacacctct cgcacacaag aggggtaagg caattgtgaa 240  
 ataacagaaa tttttgcagg atctacttca atacccttat tggaaataat gtggcctaaa 300  
 actatatttt gctcaattat aaaaatgatat tttccaaaat ttagaacaaa attatattta 360  
 atggaattat ttttaatttt ttttaatttt tttttttttt 420

<210> 16954  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 16954  
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 caattatcca ggggctttt cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
 gacagctttc caggtttctg tatccagtga tttgaggaag gccaccattc ttgctttcca 180  
 gtattcatag ttgcttccat caagaattgg tggactgttc actggctctc cttctttctc 240  
 catgttccat agaatttata tccccacatc tcaactctgtg attgogagtg ttggctctga 300  
 taccattga aattctgata ccatgggaca gatgtctgac aggatgtcac gacatcagc 360  
 ttccagaacat gcagcatatg tg 382

<210> 16955  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 16955  
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 accgtctctc ttccaagcca ccatgaacct gctttttcca tegtatctcc gccacttcat 180  
 catcttcttc ttcaacgata tcccatata cagttctctt ttccaggctc acctgagcca 240  
 ttggaaaact gcttttcagg tctgtcttga caatcattct gttttgaaat tttctaaaatg 300  
 ttctttgttg cagcttcagg tgaatacct tggacacatg gttctctgac gaggagtggg 360  
 acctgtgggt tctaaaagtc cagccattca tcaatggcat gtctctcatg ccattcaaagt 420

agtttcgcato tttctaggcc tcgca

445

<210> 16956  
<211> 389  
<212> DNA  
<213> Glycine max  
  
<400> 16956

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actatggcat cattctctggc gctaaactgc taggagttgg aagccatctt ctctattaaa 120  
ttctctggctt cagcaggagt catgtctcca agggctccat cactggtaga atctatcata 180  
cttctctcca tattaactgag tcttccataa aaatattgga gaagaagctg ttctgaaatc 240  
ttaatggctgg ggcaactggc acatagtctt ttaaactctt cccagtactc atacaggctc 300  
tctccactga gttgtctaat acctgagata tatttcttaa tgggttgggt cctggaagca 360  
cgataatgt tttctaagaa tactctctt 389

<210> 16957  
<211> 438  
<212> DNA  
<213> Glycine max  
  
<400> 16957

tcaagaataa tgacatcaco caattattta tttccgaag ggaattctat aaataggcct 60  
cctattttta atggcgctggg ttaccattat tggaaaaccc gcctgcaaat ttttatagag 120  
gtaatagato tgaatatctg ggaagcaata gaaattgggc cctacattcc cactatgggtg 180  
gcaggaaata caaccataga aaaacctagg gaagaatcga gtgaggaaga aaagagatta 240  
gttcattaca atttaaaagc caaaaatata attacatctg ctttaggaat ggatgagtac 300  
tttagggtat caaattgtaa aagtgcacaa gatatgtggg atacctaca attaacacat 360  
gaaggtacaa cagatgtaaa aagatctagg ataaatacat tgactcgtga atatgaatta 420  
tttagaatga atccaaat 438

<210> 16958  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 16958

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tatatttga tttgagagtt tttttagatt aattttatag agttttctt tttttttagt 120
tttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
atcagttcca atcttccata attgattttt tttttagcaga ttttttttaa gtttttttaa 240
aaatagtaca tttttaatgg gaggataggg atcaataact atcttttcta ctcttttctat 300
ttctctctcg aaaatgattg ctccaccatg catgaggggc agacattgga atatacatct 360
ttctcatgtc atgtgatgtg agcagccact gtccagggtc catgattggt gtgttttntgt 420
ttgtggttgaa tatatccgca acaag 445

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<210> 16959  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 16959

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agctttatct tatctgcaat gtttaacaac tttaaaggacc aatgtctgat tctccccact 60
atctctctcca caagaggcag gtaatgatgg acattgagtt ttttgcaaga caaaggaacc 120
cccaaatatc ggacaggcag agatccctct tcaaaccttg tgatcttctt tataactcga 180
atgatgtcac aattcaagcc accacaaaac accttacct ttgttggatt aatctgtagt 240
cttgttagact taaaaaagaa actgaaagcc tttagaatca tctctataga cttctcatca 300
ctcttataaaa gaagaagaac atcatctgca aaggggcaaat gagtaatcct caatcgtcca 360
cattcgtctgt gattattaaa gttaggatct ct 392

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<210> 16960  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16960

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ctcagctatg ctctacatt aaaaagacc ccttcacaag catttccaa caccagcagaa 60
taattatgat ctctcaagca acagatataa tccaggttgg aggaatcctc caaattttag 120

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atggacaagt cctccacaac aacaacagcc tgtccctacc ttcagaatg ttgttggtcc 180  
aagtaagcga tatgttctct ctccaatgca ataacagtag cagaagtccac aacaaagaca 240  
acaagcaact gaggtctctc ctcaaccttc cttagaagag ttagtgaggg aaataacct 300  
ctttatctg tttttcaat ttgagagag agcttcaat ttaggtctga ttttttgg  
ctggcaag gtttttgg ttttttgaag ttgttctcaac gttttctcaac gtttttct 420  
atagcttgg ttttttctga tttttt 446

<11> 16961  
<11> 365  
<11> DNA  
<11> Glycine max

<10> 16961  
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aaccttcacg accttgaacc tgactccagg aatctcacc acggcatgac cttttctgct 120  
aaatccagct atcatgactt cattctacaa ccatcaacca cataacatta ggataagcat 180  
atcagcacca acataacagc aaaataaagt aaatatgatt gatgaatcac ttacattctc 240  
ttcaatataa ttttaagcaac cgtcatttgg cacaatgca gcaatctctc tccatttttg 300  
atgagttgac cctggcacat tttcaatggc agagttgggc tgccttacct ataccactgg 360  
catag 365

<10> 16962  
<11> 444  
<11> DNA  
<11> Glycine max

<22> unsure at all n locations  
<400> 16962

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caagaggctc caagaagatt gggctagagc tctgaagaa ggccctaggg ttctcatgaa 120  
ccttagggta gatttctgag cccatgggac aaggttgggt ccaattatct ttgtacatat 180  
tagactagga tctcattata ttgggtctct gttatatagg cttcatattg taagtaggg 240  
acctagaaa tataggattt ttacgctctt gtttttttg ggcacataga ctggtttta 300

tattaggggt agtntgttaa ttccacatgc actaagtggg tttttgatgt gtgtgggtgg 360  
 aaataaattt aattgaattg gtagaagccc aatccaatta aatnttagag ggggaggtga 420  
 gcatttgctt actacacccc attg 444

<210> 16963  
 <211> 11  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16963

tataacatga ttntgtgttn cacatccctt ggagcatatt ttgatttato attcaacaaa 60  
 gacaagggac caccacactta cagaattcaa ggtcaatctt gccatctaat agggaggtta 120  
 ttaccaatgc caggaaaacc tcttaaattt tctcacttgt atatctatgg tacagagaat 180  
 aaaatccaaa atagaattgg aggttaagg taaactataa ttcttataac agatactaaa 240  
 gtcataataa taaattgatt gttcttaggt tatattaact tacaagttta ataatgcaga 300  
 ttgggaacc aacttgatcc aaagattggt gccaaagtaa aagatatggt ttaccatcat 360  
 aatgtctttg ctaaatcttt cggaatggca aaggaaatat ttgagaagat aaaatccat 420  
 gatctgaaat tgcaatagat atctc 445

<210> 16964  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16964

tcacaaaagt ttatatgggt tgaaacaagc accgttggctg tgatacaaaa tgttcaatga 60  
 gtttatgagc aactcaggat tcacaaagatg tgacatggac cattgctgct atgttaagaa 120  
 atatactaat agttatgtta tcattgtcgt gtatgttgat gacatgttga ttgcaggatc 180  
 tagtatgaca gatattaaca agttgaagta gcagtgggca gaaaactttg aattgaagga 240  
 tcttgggtccg gctaaacaaa tctttggtat gagaattctt agaaaacagat cagaatgaat 300  
 cttaaagcna tctcaagaga aatatacaca caaattgctt gacaggttct aacttgagga 360  
 ttctaagacc aggaataccc ctctgggac tcatttgaag ttttcaaga agcaatctt 420

gcagacagat gaagaaa

437

<110> 16966  
<111> 436  
<112> DNA  
<113> Glycine max

<400> 16966

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aaagtctctg agaaattgaa atgattcataa cttttccactc agatgtccga ttcagacgca 120  
taatatatctg agagctctga aattgaacta cgggaagctct cgagaaattt aaatgattat 180  
gaattctccac tcggatgtcc aattgaggaa catcagatat cgagacgctc gaaattgaac 240  
aacggaaacct ctcatgaaat tcagatggtc ataacttttc aacggagat ccgattccaag 300  
acatccacat atggagacgt tcgatattga accacgggaag atctcgagaa attcaaatgg 360  
tcataacttc tcactcggat gtcgattcca cgcgcctgat atatcgagac gtcctaaaatt 420  
gtacaacgga agctct 436

<210> 16966  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 16966

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acatatatgt atctctctatt ttaatttcag aaataacctt tgattgttga gcagttatad 120  
ttggctaattc aagagaaatt ccacaaagtg gctgacaaaa attactggaa agctattggg 180  
gagatcattc ctcgagaggt ccccaacatt gagaagaaaa gaagcaaatg ggatcacgag 240  
aataagccat caatcacagt cgtccaaggc ccatagcctg gctaaccacac agatctttct 300  
aggatgagggc agatatttgtt gaagctgaaa catcacccac cagctcacat gattccccct 360  
ctaactgcac ctgctaaaaga cgcctatgat gggaacgatg gaaaagacgg aatagaaaac 420  
gcattctaaag ccaatgga 438

<210> 16967  
<211> 389  
<212> DNA

<213> Glycine max  
 <400> 16967

agcttatgct tttctttata ttgtcacaca gatttcatat tcttaatggc tgcctgtttt 60  
 ttagcactt tctatcttgc ttgctggtct tcttactaca tgggttca tcttaatttc 120  
 tctgcttca tcttcttgc ttgctggtct tcttactaca tgggttca tcttaatttc 180  
 tctatcttgc ttgctggtct tcttactaca tgggttca tcttaatttc 240  
 gacaaaaat ctggttggcag agcaccggtt ttgtttggtt cactgttttt ccatttgtga 300  
 agagatcttt ttgttaatta gaatcaattc cagtgaagt gggaaccact agctttctcat 360  
 tctctaatg ctatgttttg caataaaaa 339

<210> 16968  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 16968

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 gcttcatcag tgcaagctcc acagcagctg agcttacaga aactgatcca gatgaaatgt 120  
 tagctctggg tctaacctgc tctccaaacc atctcgcttg cttgaacaaa cactgtattt 180  
 tcttatcaaa accaggaact cctgtctcag ctttcacaa cctgcttcacc tgagcaagaa 240  
 ttgaccttc cccaagaaca agtgagtcaa gccctgagc cacttcaaat agatgctgctg 300  
 cggcgtacgc gttatacagc aaaacttggg gctcccgag ctcaggtatt gaaatccact 360  
 cactaaaca aaaaacacaa ccatgagttt tcttttcaa aaaaaaaca gaacttagca 420  
 tgggttaaact acctatttcg tcca 444

<210> 16969  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 16969

tgttaaatgg aaggatagga taccctatgc ttctggaat tccaacccaa cagtgtctat 60  
 tattaggaga gaactctgca agtgcacac cacaacaaaa ca'gattgga atgcaagaat 120

atatgacata gtaaatatat aatctaaaaa tttacttttg ttataggtta atgcattaat 130  
 tatctcaaga ttaaattaac acattttttt tctctctctt ttcaacaatg gttgcgagag 240  
 agagcaagta attttgagaa ctcaaaaact gaaaatgaat gtaacotttag gtaaagtttt 300  
 gaaatgatt atagattgt gattcttta aataattat atagagggt taaattat  
 ttttactt gtaaatat aatttttt aatttttt aatttttt tgaatt 420

<410> 16970  
 <411> 392  
 <412> DNA  
 <413> Glycine max

<400> 16970  
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 ttgcacagac taatggtgat ggcactcaca tttttogaat ttttcacagt ctgtgaaggc 120  
 aatttgtag aatttttaga ctgagcttgg ttcaactgag tagcattctg cccatttga 180  
 tttatcagac ttgaatgga ggcctctgtc ttttgcataa attgcataat ctggatgggt 240  
 atttgcctca ctgctcttc taaggaaggt tgcgaagggg ccttagttgc ttgttgtctt 300  
 tgttgttgtt gttgttgttg ctgcattgga ggaggaacat atggcttgc ttgaaccaaca 360  
 ccattctgga aagcatggca tgcctgttgtt gt 392

<210> 16971  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16971

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 tcacctcccc ctctaaaatt taattggatt gagcttctcc caattcaatt aaatttattt 120  
 tcaaacacac acatcaaaata ttaacttaat gcatatgaaa ttacaaaact acccttaac 180  
 taaaaactag tctaggtgcc ccaaaataca agggctgaaa aatcatacat tcttagggta 240  
 ccttaacctac gttatggagc cctaaataaa aggcacaaaa ataatgaaa cttaatctaa 300  
 tatctactaa aataagtggtg ctacaccta gcccatgggc ctaaaacta tcttaaggtt 360  
 catgagaacc ctanggtctt ctcttgcatc tctagcccaa tctacttgga gctctctatc 420

caatgccctt gc

432

<210> 16972  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n loca  
<400> 16972

atgagggaaac cggccattnt tcataataga acactggtaa tgggtctact atcattgtta 60  
tcatttcttt ctccgtcttt gagggaaaca cttgggctgc cagatctctc cacctttggg 120  
tcatttcttt gaaagattca tgcctccttt ttgcacatgt tctatagttg cactctatcc 180  
ggagccatat cagaattgta ctaatactgc ctaacgaagg caaccattag gtcttttcac 240  
gaatggactc gggaaggttc caagttagtg taccaggtaa caactacgct agtaagaatt 300  
tttgggaaga aatgtatcag tagttcttca tcttttgcgt atgcccccat cttctgacaa 360  
tccatcttta gatggttctt gcggcaagta gtccctcttt actctctggt aatcgattac 420  
catattgttg tcatcgat 438

<210> 16973  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16973

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aaaagctcaa tctcgctctt ttgatacaa acagcatcag ggtccccctt tggatacgcc 180  
tttttaaattg cagcagaatc atgctccact atctggctct ccaagttaat ttcattctct 240  
gagggattga agttgaagta gaaatcaaaag aaaatgttag acttgatttt ttttttttt 300  
tatgagggaa gaaagaaata aaatataagt aactactgtc taacataagt aacactgcac 360  
ctaaagaatc ttgaatctag acatcttctt ataaaattac ttttaaataa gataatatga 420  
atgctatttt ttt 433

<310> 16974  
 <311> 432  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 16974

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120  
 atattttaa tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 420  
 tttttttttt aa 432

<310> 16975  
 <311> 390  
 <312> DNA  
 <313> Glycine max

<400> 16975

agctttctaga ttagtgtact aaacaaccgc ggtccgggcc aagctatctt ggaaaaagtg 60  
 tattaatagt ttctcatccc tagagtgggc gcccatcttg cgacaatata tcttgagatg 120  
 gttcttggga caagtcttcc ctttatactt gtccaagtcc ggcaccttga attttggggg 180  
 gataacaaca ttgatacca agcaaagatc cgcgaatgga ttttaccaa agccttcaac 240  
 agccttcaat ctctctctga ggagatcgag ttcccatctt tcttcgateg tgggggggtg 300  
 tctttctgtg gacaagatta ttggttgtgc tgtgaagttg ggatgatgca aagtgttgcg 360  
 ttttggggcc tgcacgagga tgggtgggta 390

<310> 16976  
 <311> 448  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 16976

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 tglactgttc gcaagggttt gtggtctgtg ctctctgtgt gaccaccata tagacctttg 120  
 ccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgtgt caaatattta 180  
 tcttctctct ctctctctct accacacaaa tcaacacaaa cagcctctct atgacctttc 240  
 tcttctctct ctctctctct accacacaaa tcaacacaaa cagcctctct atgacctttc 300  
 caaataaaa cagcctctct ctctctctct ccaaatgtgt gctggcccaa gcagaccata 360  
 ccttctctca ccaatccaac aacaacaaca accccagaaa caaccaacag ttgagycctc 420  
 cccacaaact cccctogaag aacttg 446

<210> 16977  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16977

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 tacagtacca acttggcaac ttccacaaaa aataataagt ataataaaaa aatacaatac 120  
 caagtaccaa ctttaagataa caatttaatt agaattatct actgtcattc aattacaagt 180  
 tgcctatgtgt agtaaaattta tcaatttttt attcaaatct atcaattttt atcataatta 240  
 ctataaaaagt tatatttatg atgatttcta attgattgat attataaatt ttttaacact 300  
 taaatgtgtg tgcataaat gtattgaatt taaaaacata atttatttgc atatttaata 360  
 gcttcacaaat taaaataagt tttctatagc ttaaaaagat actatattaa atactaggtg 420  
 tgcctgagat cactg 435

<210> 16978  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16978

accctattct ccttcaactg cacaaggctc ttaatatctg aagagratcc tctgggaacc 60  
 ttcacccgac gaacacactg acaaaaaatt atctctctct tcttggacaa agtatggcag 120



gctgggggca agtaaatTTT ctteccatca gaccttggat gcaactgtga tegtataccc 180  
 atatcageta gatcttgacy agtattcaag ccatecttca tcttgccctg aatgttaagg 240  
 agcgtcccaa tccactgtc acaaacattt ctccacatgc atgacatcaa tacaatgtct 300  
 aaogtcaaga tcttctcagc agggaagatc aaagataatc gacctcttct tccatctgca 360  
 atttcttctc tcttcttctc tcttcttctc 388

<210> 16979  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 16979

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 gtaggttttg agaggcagtt gactgttggc tatcacctc aacaaaatgg tgtatctgaa 120  
 aggaacaatc aaacgtgat ggagaaagga ataccaaaag aattatggcc tgaggctatt 180  
 aatacaaccc tgtacttgtt gaataggtgc ccaacaaaag cagtatgaaa tatgacacca 240  
 ttgaagcat gaaatggaag aaagccttta gtgaaccaca taaaattttt tggatgtgtt 300  
 ttgctacgct caagtctcta aagaaaagat tacaagctt gaagaagcaa gtgagagatg 360  
 catctttatt ggctatagtt ccgtgtcaaa gggctataga ctctacaact tgaagaccaa 420  
 gaaagtgate attagccga 439

<210> 16930  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 16930

gactcgggtg aaatatcttg ctagaaggtg tttctattat gcttctatcc caagcattcc 60  
 tgaataactt cacttggcac ttgaatgtgt ggaaccagc gaaccatatt atccctatgt 120  
 acgaagtgtg gatcttgaat ttgagatgcc caaacttata atgcacaaagc cacttacttt 180  
 tgcctactgt ttgggttaca cactcagtc ccataccatt aattccctacc ttaaaagatg 240  
 tcttcttga cataagatcc tttaaaaacta gtttttctt gttgtctatc accattagca 300  
 cattatctc catttccac acaaatctt tctccaggaa ttgaccaagg ctttaagatg 360

tatttttcat ttctgggcaca aaaagcacac cagatatgaa agattgttta ccato 415

<310> 16981  
<311> 375  
<312> DNA  
<313> Glycine max

tatttgaago ttgttcaacc tatcaagagt cacattctaa caacaattgt tccagcttgg 60  
agaattccatc aatggatgga tacatggagc tataagaaca attgataact gtttaaatatg 120  
atttattttg ataataagaa tatattgaaa atatitttaa aaatatattat ttaacagtta 180  
ttcttggctt aaatattaag atttgatata tttcttattt atgacgttgc catatgaaaa 240  
tgagagatta aaagagataa agatcgaaaa aatatccaag atatcaggaa atcattacta 300  
gttaaacaaa tcttaaatgat atcacaaata tcaataatga agattitttaa catcacgccc 360  
agttcactac aacaa 375

<410> 16932  
<411> 401  
<412> DNA  
<413> Glycine max

<423> unsure at all n locations  
<400> 16932

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tgtcttctct taaatcccc tgcaagaatg cagttntaac atctaaatgc tccaagtga 120  
gattctctgc agctactatg ctccagaataa ctctgatggc agtcattctt acaactggag 180  
agaagatctc ttgtgaaatca attccttgtt tctgttgaaa cctntccac acaagtctcg 240  
ccttttatct tcttctaacg tcagattctt ccttttagct atagacccac ctattctgta 300  
atgctttctt tcttcttggc aatnagttt aagaccagct cttattcttt tgaagggatg 360  
tcatttccatc ttctatcgt agctccact caatagtgtc a 401

<510> 16983  
<511> 373  
<512> DNA  
<513> Glycine max

<223> unsure at all n locations  
 <400> 16983

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 tttctctccc ctctaaaatt taattggatt gggattctcc caattcaatt aaactctatt 120  
 tttacacac atttctata ttactaat ttatgttaa ttacaaact ttctctata 180  
 tttatcag tttatgtgt cttaaa aca agggctaaa aaatctata ttctctatg 240  
 tttctctata taattggag ccttaaatad aagggcgaan aataatgaaa ccttaattct 300  
 attatgacaa agataagtgg gctcatactt agcccatggg ccgaaatct accctaaggc 360  
 tcttgagaac cct 373

<210> 16984  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16984

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 togagacgct caaaattgaa tgttgaacct ctgatgcaat tcaaaggaca ataacttttt 120  
 acctggatgt ctgattgagt cccgtaatat atcgagacgc togaaaatga atgttgaacc 180  
 tatgagocaa ttcaaacgac cataactttt tactccgatg tctgattgag tcccataata 240  
 tctcgagagg ctcgaaattg aatggtcaac ctcttagcca attcaaacga caataacttg 300  
 ttactcggat gtatgattga gtcccgtaac atatcgagac gc 342

<210> 16985  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16985

tggcccatca tcaatattga ttcaagaaa caaanaagca agtatatata tcaagtgaact 60  
 gaggcagacc aaggaaaaat acatcaaaga aaataaataa tctagtatag ctatcttat 120  
 aatcagataa agcatctaag acctgtctgc atgtggatc aacaagaggg agccgcgag 180  
 cattgccagc atcaaaatcc agtacacat aatccctcaa ccgaatctac acagcaataa 240

ctaaaaataag aagtctttttg agaattaaat gcatggcatt atctataaga cacattgttc 300  
 aaaatgagac aaacccaaag gaaggaagg attctttgca aattcccaac accaacacca 360  
 agagcagoot accattagat aaaaaagcaa gcagaaatta agtggtgata aaaaaaadaa 420  
 attcttctt gctctcttat atctaatat aaac 480

<210> 16986  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16986

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 tgcgctttac aagttgccat tgcgggttcc caaagatgac caagaatatg ctggtttatg 120  
 gggaaagaact ttgtgttggc ctctggaaa gctttctgaa gacaagcctg gaaaggtttt 180  
 attctttctt ctgctctctt atgaggagtt ccagggacaa cagcttctca ttgcaaccaa 240  
 aattttggaa ggcacacact atgtgttaca tcttaacggt tcancaattg ttacagcaaa 300  
 tatcaatgat ccttcatecc aaccttttct ctgggacact gatgcagact 360

<210> 16987  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16987

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 ttcacccgat gaagacacta aaaaaattt atctctctct tntggacaa agtatgacaa 120  
 gttgggggca agtaaatatt ctctccatca gaccttggat gcaactgtga tcatatcccc 180  
 atctcagcta gatcttgatg ggtattcaag cctcctctcg tcttgccctg aatgttaaag 240  
 agagtcccaa tcaattgtc acatacattg tctccacat gcataacatt aatacaatgt 300  
 ctaacgtcta gatcaacaa gtacggaaga tacaagagaa tggacctctt ctcccatatc 360  
 caagtcttaa ctctatctt tcttgggtc tctccaaata cagtat 420



tntcagaaca acaaaagtgtt tatcctctca aagagcaaat tcattttatc ctcttaagaa 120  
 ttcttgggoc aattcaattg caattcatta aggaattatt tgagtgcaca atctgtaaaa 180  
 tccatctctt cctagagaga ttgtttcttc ttctttctct ctttttctaa gggattaaga 240  
 gactgtagt cctctctctt aaadctctc taacacaaaa ggaacgattg tcttctgtg 300  
 ttagaattt gaaaggaa ttacatgat agtggaaatc tcaagggat ccttgggaa 360  
 ttggaagtat gcaacaagggt gtggtcgaac cagtataaaa ctgagtttgc attctctctt 420  
 cctttaatc 489

<210> 16991  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16991

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 agagtgttag tacatccatt ccatgttctt aggatcaaca aaatgcttta atgtgctaga 120  
 gctgatagtg tttagtctgg aatcagaggt gcctctagaa agtcacaggg aacatgtgct 180  
 agagtcacca ttggtcaggt tcttttctct atgtgttgta aggagaacaa caatcatcat 240  
 gcacaaaagg ctctttgtgg tgctaagttt aagtcccta gtctcagaa gatcatagtt 300  
 agctgggtgc agaccctaatt tccatatggg ggcaatcatt tgcaaacatt tggattcttt 360  
 ctagccgaat tgagctgctt aacacttgat ttgcaatca ttccaccttn gaagtcatga 420  
 tttgcacac ttga 435

<210> 16992  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16992

agcttacta atagaatcat cttagatga ctgttttggg agtctcttca ccaggtatg 60  
 ctcttgaagc tttagatta acctccagct agcatggtca aacttcttat tccatacna 120  
 gtaatgctct ttgactaaaa gtaagcatga cacttttga ttgatatgat caccaagtt 180

aatcttatag tgatttcctt gtctcttagt agacaagagt aaagagttgt cctttgtttg 240  
gatgataaac atatccttgt taaagttaaa gytgacattg tatccactat catacaattg 300  
acttatgttc aacaaattat gcttcaatcc ttttaacaagt aaaaacattat tgatagaagg 360  
ataataaaga ataaaaact tacctacacg tttta

<210> 16993  
<211> 462  
<212> DNA  
<213> Glycine max

<400> 16993

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ataaactatg acctctccag caacaggtac aatcccggtat ggaggaatca tcccaacttt 120  
atttggtoga atctctcaca acaacagcaa caacaacaac cttactttca aaatgtgttt 180  
gtcccaagca gaccatacgt tctccacaa atctagcaac aacagcaaca acagaaacaa 240  
caaacagtta aggcctctcc gcaaccttcg cttgaagaac ttgtgaggca aatgactatg 300  
caaaacatgc agtttcagca agatatcaaa gctccatcc agagcttaac taatcagatg 360  
ggacagttgg ctacacagtt aaatcaacaa cagtcccaga attctgatag attaccttct 420  
aaatctgtcc agaatacaaa aaatgtgagt gccattacat tg 462

<210> 16994  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16994

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atggatggcg cctcctctca cctctctctcc ttgtctctcc gctgcctctc catggtggaa 120  
aatcactatt aaaggacctc atgaagctc anagatccaa cctccataga aaccccacaa 180  
gcaagcttcc atcataacca ctctatttcc cctaccaggg atatccaaat tggtaactgc 240  
accccccatg tacataacaa acataacaa tcacaatgac attatcaaga tcaaaaacat 300  
ctcactctaa tgcattatc atcatcaaa tgcctccatc tcaattctat tctcaacatc 360

aatatcatct catctcaatg acattatcaa catcaacatc atctgatttc aatgaag 417

<210> 16995  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16995

taagcttctgt tccgaggttn tccgactatg ctcttggttg gtggaacaag ctacaaaatg 60  
agagagcaag atatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120  
ggaaggggta tctgcccggc agttactcaa gggacttgaa attcaagctc caaaaaactaa 180  
cccatagcaa caaggggggt gaagagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
ctaattattga agaagatgat gaggtaacta tggctcgcat tcttaatggc ttgaactaat 300  
aatccatga tattgttgag ctgcangagt ttgttgaaat ggaatgattg cttcacaaga 360  
tgcctgatcc actagcataa tataacgag 389

<210> 16996  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16996

ntcatagttc aatcccgagc gtctcaatat attatgcgct tgaatcggac ctccgagtta 60  
caagttatga ccatttgaat ntctcgagag ctcccgatatt tcaatnttga gcgtctctat 120  
atgtgatgtg cctaaaatcg acatccgagt taaaagttat gtccatttga attctctcgag 180  
agcttccggtt gttcaatttc gagcgctctc atatgtgatg cgcctaaatc ggacatccaa 240  
gttaaaaagtt atgaccattt gaatttctcg agagcttccg ttgttcaatt tcgagcgtct 300  
cgatatatta tgcgcttgaa tcggacctcc gattgaaaag ttatgagcat ttgagttgct 360  
caagagcctt catatggtca attctagcgt ctccgatatat tatgcgctg aatcggacc 419

<210> 16997  
<211> 318  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 16997

agctttagct attggaggga gaataaaaaca atcaaaaatc aatcgtacct ttcaagtnac 60  
 gcaaaaattct ttttgcggct tttagatgac gagagggtcag agcctccata aagcgacaca 120  
 tttttcttca gcttttga gcttttga gcttttga gcttttga gcttttga 180  
 tttttcttca gcttttga gcttttga gcttttga gcttttga gcttttga 240  
 tttttcttca gcttttga gcttttga gcttttga gcttttga gcttttga 300  
 gcttttctgt ggtgtacct 318

<210> 16998  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16998

tgcagagctc aataattgat tggatagaga atcaaaacttt tatttatctg ttagatgaca 60  
 tttctgtttac tcatgatcaa attaatctaa ttgttgaaat attttataat ttacaacaat 120  
 aagttatctta acattttcag acaccaaatt tgatattata tattaagggtt agttcaaaat 180  
 tgtagaaaact tcagcaaaat tttgaattaa tattctccca tttcatgttt atccacatag 240  
 tttttaacta ataataagct taataacata tgcataaatg ttgaacaatt aaaatgctaa 300  
 aaataacatg atttatgttt ttaatatcaa tggctnggag ttcttgattt ctaacaacga 360  
 atagagaata gcactacagc aagcacactg aaggaagagt attcataagg tgcaacatca 420  
 gtataaaatg ggatagaagt gataaaccac catca 455

<210> 16999  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16999

agcttgtatg atngatggct gaggggaagg gggcgcaaga tntcgtgtgt gggttggcgc 60  
 cdaggattaa gaggggttgc gagcgcgctg atgagcgagc gcttaagatg aagaagcacc 120  
 atggcgthaa gttcagttgg atttcaata aagaattgct tttgtgaaat ttcagtttaag 180

acttaagaga taagagatag aggtcaacgt gagtcaacag gtttttggct ttgtgactat 240  
 ttgagtcott gtttgtacgt ggcatttga gtacgaataa tgaacaatnt aacatggatt 300  
 ggtgtaatg gacattgttg gatccatggt tgttgtttctg gtggatataa aacatgtagg 360  
 ttttttctt ttttttctt

<211> 17001  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<213> unsure at all n locations  
 <400> 17000

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 cccgacgaag acaatgacan aaacttatct tctccttctt ggacaaagta tggcatgctg 120  
 ggggcaagta aattttcttc ccacagagac ttggatgcaa ctgtgatcgt ataaccatat 180  
 cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240  
 tcccaatcac actgtcaca acattttctt ccacatgcac aacatcaata caatgtctaa 300  
 cgtcaatata acaccagtac ggaagatcaa agaaaatgga tcttttcttc atatgcaact 360  
 ctgaacttta tcttctcttc ggtcttccc aaatatagta ttcattgtgt gaaccgcctc 420  
 atataccttc ccaccagtea atg 443

<210> 17001  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<213> unsure at all n locations  
 <400> 17001

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 tattaccggg attatcatat acaatctcaa aggttttttg ttggacgttc ccaaatatgg 120  
 ttatttgact atcatcttta ttgtgaataa atgccaaaca agactgttta tcatcgaact 180  
 catagagtaa ccttggcggg tgaagttcaa ctgtgacgcc aggaagagcg aatgacattt 240  
 cagggaatnng ataattgatt ccagtaagat cataaacact gtcaaatata ttgtgcgagg 300  
 ngtcagtggg atagtggac aaacgtctgt gaaatactga accgga 345

<210> 17002  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17002

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 atggatggcg cctctctctca cctctctctcc ttgtctctcc gctgcctctc catggttgaa 120  
 attcactatt aaaggacctc attgaagctc anagatccaa cctccataga aaccccacaa 180  
 gcaagcttcc atcataacca ctctatttcc cctaccagag atatccaaat tggtcactgc 240  
 acttcccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300  
 ctcatctcaa tgtcattatc atcatcaaca tgcctccatc tcaatgtcat cctcaacatc 360  
 aacatcatct catctcaatg acattatcaa catcaacat 399

<210> 17003  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17003

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 tcttaagaag ggggggttga attaagatat tccaaacttt tctcttaatt aaaaatctat 120  
 cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaat attaatccaa 180  
 atgaagcaac tgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240  
 aaaatgcaaa ctccagtttta tactggttcg gccacacctt tgtgctacg tccagtcctc 300  
 aagcaacctg cttagagatt ccaactaact gtaaattcct tttaaaagtt cttaaacacac 360  
 aangacaacc ctctctttgt gtttagagat tctntacaac aagagactca cagtctctta 420  
 atccctttaga gaatg 435

<210> 17004  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 17004

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aagtagtccc gaagaaaaac agcctaaccg tgataaaaaa ttacaatgag gaggtagatto 120  
taactcgggtt ggaagaaact ttttttctt ctatcuaacta tatgaggttg attctaatca 180  
ttatgaaacta ggtttgttca gtaattttta ctactatgg gtaatagct tttctggtta 240  
tatgaaatc actattgtct atgaggataa agaaaaatcc acattcactt gccctttcgg 300  
cactctttcc tatatgatga tgcctttcag cctgtgcaat gcccttatta ccttttaact 360  
gtgcattga 366

<210> 17005

<211> 350

<212> DNA

<213> Glycine max

<400> 17005

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ctatgcaagt tgaaagcctt ggaggaaaga ggtatgcta tgttgccttg gatgatttct 120  
ccagatttcc ctgggtcacc tttatcagag aaaaatcaga cacccttgaa gtattcaagg 180  
agttgagttc aagaattcta agagaaaaag actgtgtcct caagagaatc aggagtgcac 240  
atggcagata gtttgaaaac agcaggttta ctgaattctg cacatctgaa ggcacactc 300  
atgagttctc tgcagccatt acaccacaac agaatggcat agttgagagg 350

<210> 17006

<211> 337

<212> DNA

<213> Glycine max

<400> 17006

tgttgcaat agttatcaaa gtgcgtgatg agtgtttcat attgagcttg agttctgttg 60  
tagcctgcat tgcacatgtg atctgatttc tttccgtatt gattgtgaac aacgagtaat 120  
gcagatgcat ggcggggcag ttgggtcaaa tggagcactt aaatgcatat ttgaaagtgc 180  
ttctgtgctt tagaggggac aaggaggta atcatgggtg ccacatttct agggcgtgtg 240  
atgcacacca tgaactctgaa ctctgtgctt gtttgagaca ttggaatctc tctttctttg 300

taagggatga tcccctttga tgtttagtat atagctgata tcccatgtac agttatacca 360  
 ccattagaat gttataatca ccattga 387

<11> 17007  
 <111> 171  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 17007

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 ttggaggggtg caatgattga tgaatggaaa ttgattttct ctatgcattga tgtatgccaa 180  
 ttggttttgca ccaaccaago ggatatgacc ggaaggcttc ttgcgggttc attggctttt 240  
 gaaagtgcga tccctcatta tcttatagtt tgcattttgc ttcttagatc ttcaaaacct 300  
 gcttaggttt ctgaagaaga cctcattgtc atgtgggcct ttcataaagg tctacaaatt 360  
 gattgggcac atcttgttag atatcgcatg cataaggcat cgcgattgaa tgcctcatta 420  
 ccttaccctc atct 434

<110> 17008  
 <111> 456  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 17008

tcaagaaaaa gatggcctca gcaaattcct tattccaga ttggtattct atcaatagac 60  
 ctccaattct taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180  
 tagaaagagt tccaatagat ggtagttcat caagtgaag cataaccata gaaaaacct 240  
 gagatagatg gtctgaagag gatagaaaac gactacaata caacctanaa gcaaaaaaca 300  
 taataacatc tgccttagga atggatgaat atttcagagt ttcdaattgc aagagtgcct 360  
 aggaatgtg ggaactctt cgattaacac atgaaggaaac taccagatgtt aaaagatcta 420  
 ggataaatgc actaactcat gactatgaat tattta 456

<210> 17009  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17009

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 aataaaggcaa caaatattca aacatcaaac ataattacta atagtatata gatatatata 180  
 tatcaggggtg ttacaactct cccacctttt tagaaatttc gtctctgaaa tttaacctac 240  
 tcaaacaaagg atgggttgagc ttctcacatc tgactntcta attcccatgt ggcactctct 300  
 cctgatgcac ctcccagat cacttgacc aacagaactct ctttccctct taagtgtttt 360  
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<210> 17010  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17010

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 tcccatacaca aggtcatgtt aaaactcaac atgaaaagat acattcccta agttgatttg 180  
 tgcctctctt taaactgact actaaattga gagggacttt taaattactg aactattctt 240  
 caattaacat taataaagga tcttggttn ctttgtagca gggctctctt gctgctcgg 300  
 tcttcaaca cctgacanaa gcagatttaa gcaagatgta ctttg 345

<210> 17011  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17011

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 ccattccatgt tggtaagcac cagggctcct ccggagaaaag cccctcttcac aacaaaaggc 120  
 ccttcgragt cggggggcca tttccctcgg tggcctctga cagcatggga cattttcttt 180  
 agcttaaggc ctctctatg gaaatgggc aaggtactt ccttgtagaa cgggtcttcc 240  
 attctttgct ggtacaagcg cccatgactc atgggctta atgtttctt cttctttt 300  
 ctgacatgat cttacatctt ttgagccac cctgattcct ctatccgga ctatggcctac 360  
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<210> 17012  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <23> unsure at all n locations  
 <400> 17012

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 acaacggaag atcttgagaa attcaaatag tcataacttt tcacacggat gtccgattca 180  
 agcttataat atatcgatac gctcgaaatt aaacatcgga aactctcgcg aaattcaaat 240  
 cgtcataact tttcacacgg atatccgatt cgggtcata atatgtccag aagctcgaaa 300  
 ttgaactacg gaagttcttg agaaattcaa gtggtcttaa cttttcacac ggatgtccga 360  
 ttcaggcaca tcacatctg agacgtctaa 390

<210> 17013  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 17013  
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 tgggtgcca aatgaataaa aatcttttct tctctcctac acagtgggat cagagcttga 180  
 attctagagt gttgagaaag aaacactttg ttggttgaqa aagacatact ctctgagttg 240  
 agagatggca agcaatggct taagtatgtt tcaattccct cgtcttacca aagagaatta 300

tgataattgg tgtctgtcgca tgacagcctt gttaggttct caagatgcac gggagattgt 360  
 agagaa 366

<210> 17014  
 <211> 17  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 17014

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 agaagcataa tatatcgaga cgtctgaaat tgaactacgg aagctctcga gaaattttaa 180  
 tgatgataaa ttctcaactc gatgtccaat tgagyaacat cagatatcgt gacgctcgaa 240  
 attaaacaac ggaacctctc acgaaattca aatgytcata acttttcaca cggagatccg 300  
 attcatgcac atcacatatg gagacgtccg aaattgaacc acggaagatc tcgagaaatt 360  
 caaatgggca taactnttca ctccgatgtn cgattcacgc gcctgatata tcgagacgct 420  
 caaaattgaa caacggaagc tctcgataaa ttaaat 486

<210> 17015  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 17015

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 aaaaaaacta ttgtcgtttg agttggctta aaaccttcac attcaatttc gagcgtctcg 120  
 atatgttaag ggactcaatc agacatccga gtaaaagtta tgggcctttg aattggctca 180  
 gagcttcaac attcaatata gagcgtctcg atatggtaag ggactcaatc acacatccga 240  
 gaacaaagtt atcgtccgtt gatttggctc agagcttcaa cattcaattt cgagcgtctc 300  
 ctatgtttac cggacttcac cagacatccc gagaaaaa 338

<210> 17016  
 <211> 432  
 <212> DNA



<313> Glycine max

<323> unsure at all n locations

<400> 17016

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atcgagagcg tggaaattga atgttgaacg tctgagcaa tt tctatcc aataacttt 120
tctatcgata tttgattgag tctcgaacaa a tggagaa tttgaaatg aatctttaa 180
ttctgagcaa attcaaatga caataacttt ttaactcggat gttctgattga gtcccgtaac 240
atatcgagac gctcggaaatt gaatgttgaa gctctgagcc aatacaaaag accataactt 300
tttaactcggg tgtctgattg agtcccgtaa catatcgaga cgtctgaaat tgaatgttga 360
agctctgagc caatacaaac gaccataact nttaactcgg atgtctgatt gagtcccgta 420
acatatcgag ac 432
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<310> 17017

<311> 435

<312> DNA

<313> Glycine max

<400> 17017

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tgtttccagtc tcaaataaac caatgaagta atattatggt tcaatatcat ggaagtaagc 60
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ccccacacaa atgaatcacg tacgttttct acaagctcca atgccaggtc ctttgcctgat 180
tcaccatcaa gataatacac tgacccaatt aaattgctaa acttatcgac accttccagg 240
acaagccgaa cctacatacc attaggatta gaaaattttc agaattgcaa aatcaatata 300
acttatagaa acacattact cacttctcga ttcaatacac gcattctcagt gaaaaattta 360
gcattcatgtg caaaaggatc ggctgcagtt tcagcaacag atgttgaaac tgcaagcctt 420
tgtgcagatg taagt 435
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<310> 17018

<311> 411

<312> DNA

<313> Glycine max

<400> 17018

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agcttattac tttatttccg agcgtctaga tatattacag gactcaatca aacatccag 60
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taaaaatgta ctggcggtta aatttgctta actctccagc tttaaatttc gagcgctctg 120  
 atatatgaag ggaactatata agacatccga gtaaaaaagt attgtcattt gaatttgctt 180  
 agagattcaa caticatctt cgagtgtctc gttatattac gggactcaat tatacattcg 240  
 agtacaaaag tattggcctt tgaattttct caagatctca aaatcaattt tttatctt 300  
 cgaatattta agaaattcaa ttaggtatctt gagtaaaaat tttatctctt tgaatttggt 360  
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<210> 17019  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17019

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 cgaatatata gagacgctcg aaattgaatg ttgaagctct gagccaattc acacgacaat 120  
 aactttttac tgggatgatt gattgagtcg cgtaatatata caagacgctc aaaattgaat 180  
 gttgaagcta tgagccaatt caaatgacaa taacttttta ctgggatgtc tgaatgagtc 240  
 ccgaaatata ttagagcgtc cgaacgtgaa tgtgaacctc tgagccattt aaacgacaat 300  
 aactttttac tgggatgtct gattgagtcg cgtaatatat cgagacgctc gaaattgaat 360  
 gttcgaagct t 371

<210> 17020  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17020

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 aaaagttatt gtcgttagat tttctccaga gcttccgatt tcaattacga gcgtttcctt 120  
 atcctacggg acataatcgg acatccgagt caaaagttat tggctgttga atttgcctad 180  
 agcttcagtt tcaattacg agcgtctcgg taaattacga gactcattca gacatccgaa 240  
 ttaaaagtha ttgtcatttg actttccata gagcttccgt ttccaatttc gagcctctcg 300

atatattaca gggtccatc ggacatccaa gttaaaagtt attcgctcgtt gattttttctc 360  
 agagcttccg ttntcaatta cgagcgtctc gaatcctact ggaccaatcg gacat 415

<210> 17021  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17021

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 gctttccaag ttctgtatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180  
 tcatagttgc ttccatcgag aattgggtgt cgtttcactg gtcggccttc tttctccatg 240  
 ttcacaaac gtatctctca gatctcactc tgtgatttcg agtgttygct ctgataccaa 300  
 ttgaaattct gataccaggg gacagatgtc gtacaggatg tcaagacatc acgcttcaga 360  
 acatgcagat tatatgtgtc cgtatgaaca gattaaacca agtaataaca caagagaatt 420  
 g 421

<210> 17022  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17022

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 ataggttgga cctcccagaa gagaatggag tcagcaccac ttttaacatt tctgatttaa 120  
 ttccttttgc aagtggagct tatattgagg aggaggaact aacaaatntg aggtcaaato 180  
 ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa tggaccagtc actagaatca 240  
 tgagcaagag gcttcaagaa gattgngcta gaattgtga agaaggccct anggttctca 300  
 tgaacctcan ggtagatttc tgagcccatg ggccaaagtt ggggtcaatt atctttctac 360  
 atattagact angatgtcat tatatttgc cttggattta 420



ttcaaaaaac ctcaattcct gcagaaacta tttaatccac atgagctcac aagtaaccat 130  
 agccatagat cgatattcag cttctgcact ggacgcagcg acaactgtct gttctctggt 240  
 tttccaaagaa ataagatttc ctccaatgaa gacacaatag cctaattgtag acctctctatc 300  
 ctctgagaaa ctctctaat tttctttaa ctctccat atttggtat tccctctatc 400  
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 tccaat 426

<210> 17026  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17026

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 atcaggaacc tgatgaagat gagattgtgg gtgtttccct ctcaagggtca cttctaagtg 120  
 tagctgcttc agctttgatg accaatataa cagacttang cctctctgtc ttgccctatt 180  
 ccgagcagct ggcctatgga tggtcagtga tttccaggaa aatgtgggca aggcggaaca 240  
 aggaaatgta tgttccanat ttcctgaagg cttngagca tttctgcata catgctgggtg 300  
 gtaagtcagt cgtagatgcc atagaggaga gtctgaagct gcacaagaaa gacgggtgaag 360  
 cctcaaggat ggcattatac agaattggca atacttcac ttctctctgt 409

<210> 17027  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17027

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 aatacattat ntggagtaa aa'gtcaagt tttacatact tgacataaca gattgtcatt 120  
 atctagtgca gctatcaatg atctat'ata ttaatgcaga tcaacaacaga ttcttttgtt 180  
 tctttaatac aacatataa ttttaagaga gatagtttgg ttaatttacy tctgctcag 240  
 tcaagtgtct gggatgccat ggtgccttcc aaaaagagga catgtgcagg tcttccgaaa 300

ccctcatctg ttgagaaggt caccagagac ctgtgcacta ttcttcatga acaacagtct 360  
 ttattt 366

<210> 17029  
 <211> 176  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17029

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 taaaaagtta ttgtagtttg aatttgctca gggcttctgt attccatttc gagcgtctcg 120  
 atattattcg ggactcaatc ggacatcaga gtaaaaagtt attgttggtt gaatttgcctc 180  
 agagcttctgg tattccattt cgagcatctc gatattattac gggactcaat cagacatctgg 240  
 agtaaaaaagt tattgtagtt tcaatttctc cagggcttctg gtattccatt cagagcgtctc 300  
 cgatgtatta cgggactcaa tcagacatcc gagtaaaaaag ttattgtctg ttgaatttgc 360  
 ccagagcttc cacattcaat ttogagcttt cagatatatt taagggaactc atcagacatt 420  
 ccagta 426

<210> 17029  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17029

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 taactcggatg ttgattgag tcccgtaata tatcgaaaag ctogaatgtg aatgtagaag 180  
 ctcgagcaca attcaaacga caataacttt ttaactcggat gtctgattga gtcccgtaat 240  
 ataccgagat gtcgaaatgg aataccgaag ctctgagcaa attcaaacaa taataacttt 300  
 ttaactcggat gtccgattga gtcccgtaat ataccggaac gcttgaaaat gaatgttgaa 360  
 ccctcgagca aattcaaacg acaataaact ttaactcggg tgtcttgatg agtcccgtaa 420  
 tatatcg 427

<210> 17030  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<215> 17031

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 tcaatcaaaa ccaatccaaa ccgcacaacc attaaataat ttttttttta taaaaaaaag 120  
 cttctctctgg ctcaagcctc ttcaagggtt ccaaatata gaaactacag agaactaaca 180  
 aagaaaaagg aaaatagata aatgaaaaaa aatggcaatt tcttcagaaa ctcgaaatta 240  
 aaaaacaatt aagcgaattc gcttcgaatt tcaaaattac aacttcctta ggtgtaatta 300  
 agcaagcaga gaaaggaata ccattgattc acgtatggcg gtgggagaga caccatcgcc 360  
 atccttggat tggcttgaat ttcttatggc gaatggattt ccgcgattgg tggagacctt 420  
 gatgagagc 429

<210> 17031  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 17031

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 tttctaaggg atccattgcc taagaaatct cgggcagtaa gtagacataa ctgtaacgtg 180  
 aataatcacc aataatggtg ataaagtatc attcctttcc gaaagaacta acatcaaaag 240  
 gtccacaaat tcaatatcac aatttcaaga agctgagtg cttctgtagc tcttttcttt 300  
 gtatgttttg cttgttttcc cttaatacaa ccacataaa tatttagatc cgtaaaatct 360  
 agataaggaa gaatttcatt ctttattaat atttccatcc tttctctaga aatgtgacct 420  
 aaacgtttat gccaca 436

<210> 17032  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 17032

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tgccttttca tttccttca ttttataa aggggccaag ttttcttt ttctcattcc 180  
tcttcagggt ttttctat cagttgggt tcttctata agaatagata ttgagttga 240  
tgtgaggaat cctttaaccc aaccaatcca ccttctatga aacccattc ttctcctat 300  
at 302

<210> 17033

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17033

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aatctgcaat tctccgcata ctctatgggt tatgtctctc tgttgaccac cacacagacc 120  
tttgcccttc tctgcagcaa tctaaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180  
tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaa aattatgacc 240  
tttccagcaa cagatagaat cctgngtgga ggaatcctcc caaccttaga tggtcgaatc 300  
cttcacaaca acagcaacaa caacaacatc cttattttca gaatgttggt ggccctagca 360  
gaaccatacg ttctccact atccagtagc aataacaaca acagcaacag 410

<210> 17034

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17034

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atgaactcct aatcgctcca cactgcaac aagaaagggt agaagataaa tctcgtttta 120  
cacgaaaaaa aattgtaggg aggtgcaat ggaaggcaag tcaagggaag aatttgacan 180  
ttttaggtta aggaggcttc caaacacaag accagttcac tagaaaagaa gaatgaatgg 240



taggctctcg gattaaccac togaaggcat atttagttga aaagcaccct aaactagatg 300  
 ggttcacat aattntgtca agcatatgaa taacaagtgt ggtastcaco attttgagto 360  
 taatattant tggtagagtt gataaacagt gtcccaatto actgacctca atggaatgta 420

17035

<211> 17035  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<228> unsure at all n locations  
 <400> 17035

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 ttaggttatg aatagagtaa ttgagcagta ttgcgcgct ttgtttcacc gtgggcctcg 180  
 aaattggcgt aaataactac cctggattga gctctcacac aacacttcac ggaattccgg 240  
 cacaggttcc aggccttatg agattacatt tggacgataa ccttcttcac tacgggaata 300  
 catctoggga acttcanaat ttgatgctgt ggaagaaatct ttatacaccg agaggaagtg 360  
 ttcattgcat tctagaaaat t 381

<210> 17036  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<228> unsure at all n locations  
 <400> 17036

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 catggcctat ttgtctagta atttaaaaact tgtctccctg gttgtgcctg aagcaaaaat 120  
 gcatgatggt atctatgatg atatcaagcc caagacaact aggaaaggac attgatattt 180  
 atctcagttc cttagattga gacttgacaa agttgtggga caaggggggt acgtgtgttg 240  
 atggtatcaa aataaacat ttaagttggc tgcattgcta ttctgtaaca ttaattactt 300  
 tccagcctac gagaatttga ggggatatag tcttaagggc catcatgcac gctctatata 360  
 tgaagaagac acaagccatg tacaattgna catggaagaa aatatatata ctgggcattg 420

cattttcta

429

<L10> 17037  
<L11> 416  
<L12> DNA  
<L13> Glycine max

<L14> 17038

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gaattctcag agagcttaag ttggtcattc tcgagagcct ctatatagga tggcctgaa 180  
tcggacatcc gagttaaaag ttatgactat ttgaatttct caagagcttc cgttgcctaa 240  
ttatgagcgt ctcgatatgt gattcgcctg aatcggacat ccgtgtgaaa aggtatgact 300  
atttgaattt cacaagagct tccgttgcct aattttgata ggttcgatat gtgattcgc 360  
cgaatcgaac attcgtgtga aaaggtatga acatttgaat ttctcagagag ctctcag 416

<L10> 17038  
<L11> 419  
<L12> DNA  
<L13> Glycine max

<L23> unsure at all n locations  
<L40> 17038

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ataccaggaa tctccgcacg ggtccagcct atagctttct tatgcttctt gagaattgat 180  
aaaaacttct cctcttgcct atcaacaagg gaggcataata taattactgg aaaacgtttg 240  
ctatcatcca agtaagcata ttttanattt gatggcagag gcttcaatto tgggtgtgggc 300  
guttggataa tggtagaagg agatggtnct tcagcctgta cctcataaag acagtcagag 360  
gcatggttac ttcctgaaac atggctagtt ctatcagaact ctacgacacc tactctacg 419

<L10> 17039  
<L11> 427  
<L12> DNA  
<L13> Glycine max

<223> unsure at all n locations  
 <400> 17039

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agtttttttg aaacatcacc taacacatcc ttatggggag aaataacatt agactcatca 60
aaggaaaacat gaatgggacc ttcaatagtc ataantctct tattgtatat tctatatgct 120
ttattatgca aggaataa ttattatg ttattatg ttattatg ttattatg 180
aatttttttg ttattatg ttattatg ttattatg ttattatg ttattatg 240
tttttgggtt tctaccattg aataattcat aaggagtctt cttaagatg ggtcttatta 300
aagtcctatt taagatgtag catgcagtgt taacagcttc agccanaag ttttttgaaa 360
gtggagtacc atttaataag gttcttgcta ttctctctaa ngatctattn ttcttttcaa 420
caacacc 487
  
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<210> 17040  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17040

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taacctanat ggtctccatt ccttccctaa accacattct ttctgaattc tttagtgtct 60
acacctttctt ggggccaaat gaacgtcttg ctcatctctg tcttccaatt aaattaatgt 120
aagaactaag aagggttctt ggtatactct ctctaactct aacacaacac acatgatgta 180
ttagtattag tttaaattta gtgaaaatta taaaataaaa taaaatttca acaaatgtta 240
agttgaatcc acagaactta tttttttaac taataataaa agaacgtggt taaaagagct 300
tgttggtaat attttttcat gtgtaattaa atgtaggtta ttattatata agttcattta 360
agacattgtg ctgtttggtt tagatttaat ttaatatact gtgaatatca acttgacatt 420
ttattttt 428
  
```

<210> 17041  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17041

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tatcagtcac gcccatanat aaatgttgca aaatttgcca ttttataaaa ataaggctga 60
  
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aatgtggaat taagtctact attaatatac tatttatcta aatatataaa tacatagtgt 120  
ttttttactt taaataggat atcaatttta tttttattag attcaatcat taaaaactaa 180  
ttttttttaa cgggggaact ttttggaat aaaaatctat tgttagataa aaattaatto 240  
ttttttttta tttttttt tttttttt tttttttt tttttttt tttttttt  
ttttttttta tttttttt tttttttt tttttttt tttttttt tttttttt  
acaatagaag aattccaata tataaatata tagtacatag atnttaatat atgtgtgaag 480  
taattctact tnttaatat t 441

<210> 17042  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17042

aactttttaa gttagcatta natgtaaact aggcgaatcc taagagtgtt tggatgacca 60  
cattcaaggt tccccaaaa acactcacta tcttaaggaa gaattgccta aaattattac 120  
acacaaatgg aattntggta acctattgga ggctcccaac acacttccat tgaaaggcct 180  
tttggttaca aaacttgaaa gcaatgaagg taagtaaatt gcaaattaca aaattacaaa 240  
atgggtccca atnttggtgg ttgttctctc tttggtgatt cactcaattt ggagtgcctc 300  
ttagtccaat agctcttaag gtggttggtt cttttctctc tgactcanat tcttcaaggc 360  
atggcaccaa tctctcttcc aattccctat atggcaaccc acanacaagg aaacaaagag 420  
acaagcaata atc 433

<210> 17043  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17043

cttgtgcatt caatatcccg atgaggggtg tccatatgtt cttatgaatg ttctaataca 60  
tttgcctccc aagtttcctg gtcttgcaag tgaagatcct tataagcctc ttaaggagtt 120  
ccatattgtt tgttccacca tgaaccccc taatgtccaa gaaggtcata tctttctaaa 180

ggcttttctt cattcttttg agggagtggc aaaagattgg ctacactacc ttgctcccaa 240  
 gtccttttcc agcangyaca ccttaaaggg tgtctttgga gaaattcttt cttgcacata 300  
 ggacactac catcagaaaa gacatttcag gcattaggca acttagtgga gaaagcttat 360  
 gctctcttct cttctcttct aagaaactat gttccatttg tcttcaactat gttctcttct  
 gttctcttct tttctcttct

<L10> 17044  
 <L11> 435  
 <L12> DNA  
 <L13> Glycine max

<L23> unsure at all n locations  
 <L403> 17044

ttcttggttag ccaaatccac acactcgtct tegtccagtt gattaatagt cttcttggtta 60  
 ggtatgcaga ctattggccc aacgtttctt atgacaaaact ttctagcctc catttggtta 120  
 agtctctgcc attccaatca aacatgccaa gttacacatg acaaaaaata aaataaaata 180  
 aaatacagta aatntttggt tggattnttt ttaataaac atttataaaa gaaaaaccca 240  
 aaagttaaact gaaataaact tcttgcttca tcaatcaaaa tgaaataagt taatttataa 300  
 aaatccttcc acttaatttt ttcaaaaact gattntaact tataagagaa gtttaactcg 360  
 tgtatcttnt ctatcttaga ataagyaaac aagaaggtaa nataaaacaa tnttttataa 420  
 atngatataa cttat 435

<L10> 17045  
 <L11> 433  
 <L12> DNA  
 <L13> Glycine max

<L23> unsure at all n locations  
 <L400> 17045

tatcttttgc aacagcatta ttaattntgt gageccacgt gtgattgaga tcttccctct 60  
 tcagataaat gtgaggtcct tcaccattag gctctctgta atgctccgtc aacctttcag 120  
 caaaataaag aggactctcc cygcacaacat aatcttttag aatcccagcc agttctctct 180  
 ccaactcaaa atctaagaaa atttccattg ttttctcttc caggaaacta catttcattg 240  
 tttctgaatg tagthaacat acaaatatga gagatgtygt agtatgtang agagacagan 300

agttattctg aatctaattg agtgaagatt aacatggagt tccaaattgg ttagttctgt 360  
 atgaaactcg aaaaatanaa gactaaagaa attctgaaga atgaaatgat acacattcaa 420  
 acagtcacaa aat 433

<211> 17046  
 <212> DNA  
 <213> Glycine max

<400> 17046

tagccattgc gaatttatg cagtogaaca tatattatta tcatctttat ctttattctt 60  
 tagtataaac agaaaagatc gactttgac agtatatgtc ctatggcaat ctattaaaca 120  
 atttaattaa ttaattatc gacagaatac atatctgcaa gtttcaatat atattttatt 180  
 caacccaaaa ctatctata ccaggaatat gagtaattat gtttcaaac cataaatatt 240  
 taacaaaaaa gaaattagtt cgatatagct ataactaaat catagcagat tatcaatcaa 300  
 gttacatgta gtatgtatc ctattgaaat gaaactatct ttgagagtct tatgagctaa 360  
 gcaagttaga atttggaatt agggatc 389

<210> 17047  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17047

tatgctgcaa acacttataa tagtatctcc tcaacagcaa atccaaacaac aatagaataa 60  
 ttatgaacct tcaagcaata gatacaatcc aggttggagg aatcatccaa atctgagata 120  
 gacaagtctt ccacaacaac atcagcctgt cctctcttcc caaaatgcta ctggtccaag 180  
 caagccatat gttctctctc caatgcaaga acaacagtag cagtcacaac aaagacaaca 240  
 agcaatgatg cctctctcaa cctctcttag aggatttagt gaggcacaatg accatccaga 300  
 atatgcaatt ccagcaagag acaagagcct ccattcagag tctgacaaat tagatggggc 360  
 acatggctac tcaagtgaaac caagtcacat cccaaaattc taaccaattg ccttcacana 420  
 ctatccagaa tccg 434

<210> 17048  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17048

atgagaaga atgagagaa taaagagaa gaaagagaa atgagagaa  
 agagagagtc tgaatagatg agttaaattt tcaaatgac aaagttgaaa aaattgcaca 120  
 aatagacact ctatttatag cctaagtgac acacaaaatt ggaggggaaat ttgaatttct 180  
 attcaaatct caattgaatt tctggagaca aattttggag ccaaaaatttc actaattatg 240  
 attagtgaat ttaaacctgg ttctccact aatccaagat gaagtccaag attctccact 300  
 aggtgtgctt aggtgtcatg aggcattgta agcatgaagg acatgcacaa agtgtgacta 360  
 tatgatgtgg caatgggggtg tagcaagcaa attctccact tccctctna aatttaattg 420  
 ga 482

<210> 17049  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17049

agctttatct ntaattacg agcgtcttta tatattacag gaactaatca gacatccgaa 60  
 tgaatgtta ttgtcatttc actttcata gagcttccgt tttaaatte gagcgtctcg 120  
 atatatataa gggctcaatc ggacattcga gtaaaaagtt attgtcgttt gatttttgta 180  
 acagcttccg tttaaatte cgagcgtctc gatattctat gggacacaaat caaacatccg 240  
 attcaaaaagt tattgtcgtt tgaatgtgct cagagcttca gttttcaact acaagcgtct 300  
 agatatatta cgggactcaa tcagacatct gaagttaaat tattgtcatt tgacttttca 360  
 tagagctctc gttttcata tcgagcgtct tgatatatta at 420

<210> 17050  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17050

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ataagaanag tcaacggaga attacttntg acttcggatg ttgattggtt cctgggaanac   60
atcgagagcg tccaaattga aaatgggaacc tctaagaaaa gtcagagagc aataactttt  120
atcttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
atcttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
atcttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
atcttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
aaatcggatg ttcgattgag ccttgtatta tatcgagacc ctgaatttcg aaacgggaacc  360
tctaaaaaag tcaaacgaga ataactttta actcggatgt ccgattgagc tctctaatat  420
atcgagagcg                                     480
  
```

<210> 17051  
 <211> 406  
 <212> DNA  
 <213> Glycine max

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<400> 17051
agctttttatt atgcattgtc tattcttaat agggctcctt'ataaaatttt gaaaaaaacc   60
tttatgagtt atggagaaaa agagaaccaa atatgaaata tcttaaagtg tgggagtgtc  120
ttgcaaaaggt taacatccct attaataaga aaagaaaaat tggaccaacc gttgattgtg  180
tttttgyttg atattttttg catagtacta cttatagatt cttggtttgt aattctaaag  240
tgtttcaaat ttctaataat actattatgg aatctagaga tgacaatttc tttgaaaatg  300
tttttctttt ggaaaaaaaa aattgtctaa acccgtttgt gatacttctt attctgattt  360
gtcatcttgt agtaattcta ataaggatgt tgtttttgaa cctata                        406
  
```

<210> 17052  
 <211> 411  
 <212> DNA  
 <213> Glycine max

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<400> 17052
ttcttgdaag cttaaacatt caatttcgag gctctcgata tattacggga cttaatdaag   60
catccaagaa aaaattttat gtcgtttgaa ttgcttcaga gattcaacat tcaatttcga  120
cggcttcgat atattacggg actcaatcag acatccgagt aaaaagttaa tctcgtttga  180
  
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attggctcgg agcttcaaca ttcaatttcg agcgtctcga tatgttacga gactcaatca 240  
gacacccgag taaaaagcta ttgtcgtttg aatttgcctc gagattcaac attgaattgc 300  
gagggtctcg atatcttaag ggactcaate agacatccga gtgaatagtt attgtcgttt 360  
tatttctcgc aiaatttca tait taitt taitt taitt aiaatttca 420

<210> 17053  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17053

tgcttattgg aattgtactc taacttcttt aatttcaca tcttgtggaa ctgtactccc 60  
attgatttca ccattttcaa tgaatcttgc atttcagct ttgaaaatc tcactatg 120  
attaggacaa taaaacatat accctcttctg acttttctgg ataaccaatg aaatatacac 180  
tgattgttca tgcacccaat ttcttttctt gtggattata aatccttatt tctgcttggc 240  
aaccttaaac atgcaagtgc cttatactag gtgtctttgg aactgcctta ctaggaaccc 300  
tattcaacaa atacatggta ttnttcaagg catacatcca caaagataca ggtaaatttg 360  
aattacttaa catactcta accatatcca ttaaaattct attacgcctt 410

<210> 17054  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 17054

agtttcttaa aaagcatacg gctttcttga tctagatgat gatattata cagatggatc 60  
ttatatatct atatcttat agatagatat atacatatag atatatagat atagatcata 120  
caatgaagta ccgcacgagt gggtatatac gaatccaaat ctgcgcgaatc actaatgtta 180  
tgattcttca cactctaggt ctccctgtgc ctccatctgg cttatgttct tcatgtagca 240  
ttcagaactga atgaactctat gatatgacgt cgtactctcc acatggtaag ggtaacgtac 300  
tagacatctc ttttttccc ggggggaatc cttagagtga ccacagctta gctttcaatt 360  
cgctctcgac catcaaatga aatgtgaata accc 394

<210> 17055  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 17055  
 aggtctctctc aatattatgc gacttccggg tgaaaagtta tgaccattgg 60  
 aatttctcga gagcttcoga tgttcaattt cgagcatctg gatatattat gcaactgaat 120  
 cggacttcog tgagataagt tatgaccatt tgaatttctc gagagcttgc gatgctcatt 180  
 atcgagcttc cegatataata atgcgcctga atcggacatt cgtgtgaaaa gctatgacca 240  
 ttggaatttc cegagagctt cegatgttca atttcgagca tetgaatata ttatgtgctt 300  
 gaatcggaca cccgtgtgac atgctatgac catttgaatt tetcgagacc acacgttggt 360  
 caatttcgag agtctcgata tattatgcgc ctgaatc 411

<210> 17056  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 17056  
 agcttctctc aatattatgc gacttccggg tgaaaagtta tgaccattgg 60  
 aatttctcga gagcttcoga tgttcaattt cgagcatctg gatatattat gcaactgaat 120  
 cggacttcog tgagataagt tatgaccatt tgaatttctc gagagcttgc gatgctcatt 180  
 atcgagcttc cegatataata atgcgcctga atcggacatt cgtgtgaaaa gctatgacca 240  
 ttggaatttc cegagagctt cegatgttca atttcgagca tetgaatata ttatgtgctt 300  
 gaatcggaca cccgtgtgac atgctatgac catttgaatt tetcgagacc acacgttggt 360  
 caatttcgag agtctcgata tattatgcgc ctgaatc 397

<210> 17057  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17057

agcttctctc aatattatgc gacttccggg tgaaaagtta tgaccattgg 60



tgattcaaact gagtagccat ctgccccatc tgatttgtea gactctaaat ggaggetcctt 360  
gtctcttggct gaaattgcat attctggatg gtcatttggc tcaactaactc ttc 413

<210> 17060  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 17061

tgcttgatg ctacggggt catctctca acaatttta agggctcaca gaaaggctc 60  
gaaagcttg atgggctgt tggggcacc gtggtttggc gatatggct agcttgact 120  
agaacccaact tatttaactg aaactcatg tccctggcat gtcacccgc gatttcctc 180  
atggcagcct ggctttctg caatttcgg cgaaggagg taaacatgt tccctctga 240  
ctgagcaaat cgtccactgt tgcacagtg gaggtgcct ttaagtattt gggcaaaact 300  
ggaggtttgc ggcacaaatgt aacctcgaag ggtgttagcc tegtggctga gtggacagac 360  
gtgttatacg acaactctgc ccacaacagg aagcgccccc acgaact 407

<210> 17061  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 17061

tgcttggttg tcaactacat gcttggtta acctggtaac ccagctggcc ttgaatcaga 60  
aatctgtaet tgctgcaaga atctgtggtt tatgtctctc tgcgaccac cacaagacc 120  
tttgcccttc tctgcagcaa ctggagcaa ttgaacagcc tgaagcttat gctacaaaca 180  
ctcacaatag acctctcaca cctcaacagc aaaatcaacc acagcagaac aattatgacc 240  
ctctctgcaa cagatacaac ccggaatgga ggaatcacc taatctcaga tggcttagcc 300  
ctcagccaca acaacagcaa ctgtctctt ccttcagaa tctgtctggt cgaatatagac 360  
catacgttcc tccaccagt cacaacaaac agctaccaca gcataaacag a 411

<210> 17062  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 17062

agcttgatg taaactagat gccttggtta acctggtaac ctaactggcc atgaatnaaa 60  
aatbaaadaa tcttgccaga ctctgtggat tatgtctctc tgcggaccac cacacagacc 120  
tttgcccttg tctgcagcaa tctgaagtaa ttgaabgcg tgaagctat tctgttaata 180  
tctgaatct atctctca tctctcgc tctctcgc tctctcgc tctctcgc 240  
tctgaagaa caggtaaat ccggagtgga ggaatctcc caactctaga tgggttaac 300  
cttcacaaca gcgcagcag atacaacagc cttattttca gaatgctgtt ggcacaagca 360  
gacatatarat tactcaacca atgcaacaac atctacagcc ccagaaaacag a 411

<210> 17063

<211> 403

<212> DNA

<213> Glycine max

<22> unsure at all n locations

<400> 17063

tttgcttgca agccttgagc aaattcaaac aacaataact ttttactcgg atgtctgatt 60  
gagtcocgta atatctcgag acgctcgaaa ttgaatgttg aacctctgag ccaattcaaa 120  
cgacaacaac ttittactcg gatgtctgat tgagtcocgc aatatatcga gacgctcgga 180  
attgaatgtt gaagctttga gcaaatcaaa acgacaataa ctttttactc ggatgtctga 240  
ttgagtcocg taatatatcg agacgctcaa aattgaatgt tgaagctctg atccaattca 300  
aaagacaata actttttact cggataattg attgagtcoc gtaatatata tagacgctcg 360  
aaaatgaatg ttgaagctct aagccaattc aaagacaat aac 403

<210> 17064

<211> 410

<212> DNA

<213> Glycine max

<400> 17064

agcttatgct tctaaaaagc tataggtaat gtaatgtaag aagcaagtgt atgatgaatt 60  
acttcaggtt tctaatctct cttattagtg attatctaat taacaatttc atgaaattaa 120  
cagcttctct aatcatttgg catcttcaaa gatcatgaag aaatatgata aggtgaaaat 180  
tcaattaccc ttcacttcac tctactcatt taaactttat tatctgtaac atcaattgac 240

atagtaactt cataattcag atcacgtcaa gagatgcagc tgaagcttat atgagaatgg 300  
 tggacaactc ccaccttggg agttctgatg aggtgagagt gctaataaga aagtctccca 360  
 ttagattcca ttattcttct acatgtaact tctatcaccc gtaggtttaa 410

<210> 17065  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<21> unsure at all n locations  
 <400> 17065

agcttgatat aacatagcca aggtgtgttc cactatatgt cagtgtcttc tttctaccag 60  
 accattttgg tgytgtgtat gagggcatat gactctatga ataataccaa gctctgcaag 120  
 atacttagta aaaggtctgt attccccttc ccaatcagac tagacagctt taataggcaa 180  
 attaaattga gttttcacca tagtttgaag ctgtgtaaaag ataggttagtg tctctgattt 240  
 atttttcaac aagtacaacc aagtgaacaa agtgtgagca tcaacagaag ttacatagta 300  
 tttataaaca gtgtaaatga gttcaaaaagg agttgaatac acagttaagag agggagagga 360  
 gggaagttat gagatttcgc aatgcaacaa tgggaacaan agtcagaact t 411

<210> 17066  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 17066

agcttgctac ataccaccca tgttcacccc tagggttctt tcagatgggt ttatatctat 60  
 ccactctccc ttatttgacc tgacttgaag cctctctatc tcattgtgat ataagatagt 120  
 aatacaaact atatcaatgt gcatcccaag cccctcaact tgatcttcta taactttctg 180  
 agctgagtaa tcytttcccc aacatataca accatgaaca ctctctcata ctgattccac 240  
 ttcttgttct ttcttttggg tactttcacc cgatagtctt catgahgcaa accatttacc 300  
 ttccaaaatt ttacctatat ctcaattttt gctactgcac atggttaattg gtaagcccaa 360  
 caagttacatg gaaaaaayga gaaagacccc actgggtttgc aagtaaaacta a 411

<210> 17067

<211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17067

gagatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 1  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 150  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 240  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 240  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 300  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 360  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 409

<210> 17068  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 17068

gagatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 60  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 120  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 180  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 240  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 300  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 360  
 gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 408

<210> 17069  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17069

gagatgagatg gaaatgagatg gaaatgagatg gaaatgagatg gaaatgagatg 60

tttaaatgct taattaatgt agtttttaaaa ggaatgttgat ctctccattg cgtangcaag 120  
 agcaagacaa cgettaccaa acaaaaaacgg ctcttaattt ttaaaacata taataaaaag 180  
 tctccttatt ataataatca aattgacttc aattagcata aaaataatag ccttttagtgg 240  
 gacaatccat agtaattat caatttagt acaattatct attaataa caaaaag 300  
 caattatct caattatct caattatct caattatct caattatct caattatct 360  
 taagtgaatt caaaccaaga attaacada tagctatc 392

<210> 17070  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 17070  
 agcttgttat tgaacaatgg aagatcttga gaaatgcaat cggctttaac ttttcactcg 60  
 aaagtgcgat taagggcgt aatataatga gaagctctcg tgaaattcag atgggcataa 120  
 ctgttaactc agaggcccca tctatggcca tagtatactc agatgcacat catggaacaa 180  
 cggaaagctct cgagagactt atatggagct gacctttaac tcggagttct gattcaggca 240  
 cataacacat tctgacgctg gagatggaac aatgaatgct gtgagagactt tcaaatggac 300  
 ataactgtgg acgtggaggg atgactgggg cgatgagata tagagacgct cataatgaac 360  
 taagggaagct ctctagaaaa tgaatggcac ta 392

<210> 17071  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<222> unsure at all n locations  
 <400> 17071

agctttttta catgcatgca tcattcccag tgaaaattaa gtcacaaaca taacaaactca 60  
 caattaaaat tcctttacct cctctctgtt tgacaaagag agtgtgctca tgatcgcata 120  
 gttcaaaatc ctcttcaca aaataggctt caattttgtt ataccaagca cgtggtgctt 180  
 gctttaaccc atataaagct tcttaagct tctagacctt ctctttttca ccttttcgaa 240  
 cataacccca tgggtgttcc acataaagt cctctgtcaa tctctctga agaaatgggc 300  
 ttttgacata tagttgatac acattccata cctttttgtc tctagagctt aaaaccatcc 360



ggattgtgtc ccaccttggc accgngcaa acacttgggt gtagtcaatc ccttg 415

<210> 17072  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 17072

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 gaacatgag aggcacaaagc acatagatgt gaaactacac ttcatacagag atgtgattga 120  
 atcttagaag gtgaaggttg agaaagtctc aacagaagaa aatcgggtcg atatgttcac 180  
 aaagtccttc tctagtgtca agttcaagca ctgcttgagc ttgatcaatt tgaagatgc 240  
 cttaaagcagt ttggtagaag tgcagcctca aatcacaagg aagacaattg ctgatttggc 300  
 gtaaggttgg agatttgttg tgtgtgactc aaaatcacaa ttgcacaaag tgagaaggct 360  
 ttaaagtggg gtgttcataa atgttatcaa gtattataac tgaattg 407

<210> 17073  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 17073

agcttgttat tggacaacgg aagctctcga gaaattcaaa tggtcataac ttatcacact 60  
 gaggtccgat tctggoggat agtatatcga gaagctcggc attgaacaa c gaaagctctc 120  
 gagaaattca aatggtcata acttttcaaa cygaagtccg attcaggtgc ataatatatc 180  
 gagaagcttc aaattgaaca acggaagctc ttgagaaatt caaatggctg taacttatca 240  
 caaggagatc cgattcaggt gcataatata tgcagaagct tggatttgaa caacggcagc 300  
 tcttgagaaa ttcaaattgt cataacttat cacacgggaag tctgatttat ggcataata 360  
 tatcgagacg ctcgaaattg aacaacggaa gctctcgaga aatt 404

<210> 17074  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 17074

agcttggtatg tcttggatct tcttcacaaa tggagtaatt tgcctcttga agatcaatag 60  
 cagcgtaatg gagatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc 120  
 aagaaaaaac tcaaccacat aggaagtcct ggataagagc ttgaaggtag gagaagatga 180  
 tggagatgct tcaatcctc tcaatcctc tcaatcctc tcaatcctc tcaatcctc  
 aagatgctc tcaatcctc tcaatcctc tcaatcctc tcaatcctc tcaatcctc  
 tcttaagtgt cacatacaat tggagggaaa tttgaatttc tattcaaatt tcaattgaat 360  
 ttgaaattca tgaatttctg gagccaaagt ttggagccaa aatttcaact att 413

<210> 17075  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <220> unsure at all n locations  
 <400> 17075

agcttgcctac ttgaggaggg agganntnnt ngcttcttga atatcaatan caacgtcatg 60  
 gatatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc aagaaataac 120  
 tcaaccacat aggaagtcct ggatattgagc ttgaaggtag gagaagatga ttggagggaag 180  
 atggagagaa ggagcacgat attttgtgac tcaaatgaga tttcaacctt gaatggtgat 240  
 tctcaaatga tcaaatgtga taaatgcac atacatgacc tctatttata gcttaagtgt 300  
 cacatacaat tggagggaaa tttgaatttc tattcaaatt tcaattgaat ttganatgca 360  
 tgaatttctg gagccacagt atggagccag aatttcaact 399

<210> 17076  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <400> 17076

agcttgttat tgaacaacgg aagctcttga gaaattcaaa ttgtcataac ttgtcacacg 60  
 gaagtccgat tcaagtgcat aatatatga gagctctgaa attggacaac gaaagctctc 120  
 gagaatttca aatggctata acatttcaaa ttgatgtcctg attaaggcct atattatata 180  
 gagaagcttg aaattuaaca aaggaagctc ttgagaaatt caaatgttca taacttatca 240

cacggatggt caatccatgc gcataatata tcgagaagct tgaaattgaa caacggaagc 300  
 tctcgagaaa ttcaaatggg cataactttt cacacggaac accgattcaa gcgcataata 360  
 tatcgagact ctgggaattg aacaacgaaa gctctc 346

<210> 17077  
 <211> DNA  
 <212> Glycine max

<400> 17077  
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 agatctcgag acgctcgtaa ttgaaaacgg aagctctgag aaaaatcata cgacaataac 120  
 ttttaactcg gatgtctgat cgaacctgt aatatatcaa gacgtctgaa actgaaaagg 180  
 gaagctctaa gaaaagtcac acgacaataa ctttttactc ggatgtctta ttgagccctg 240  
 taatatatcg agacgtctta aattgaaaac gaaagctcta tgataagtcg taagacaata 300  
 actgttaact cggatgtctg atagagccct ttaatatatc gagacgtctg aaattgaaaa 360  
 ctggagctct aagaaaagtc aaacgacgat aactc 395

<210> 17078  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 17078  
 agtttatgaa ggttgcttaa tatctccaac agaattactg caattaatcc ctaatattta 60  
 taattagctg acagttctgat catgctgata tatatcaata agttaaattt gatagtgata 120  
 ctgttgtata tattaaacta cattgagatt tggcaaaaagc aaaaagctat taaacaatgt 180  
 ctgtgtgttc attctcattc aagaaacagg ttccaacttc tgtacaaaac agaaaatcct 240  
 tacaataaaa gaaaacagct tctgttcaaa ttgtctcact cttatctgtc tgtgtctcca 300  
 ttacgatgat ttacaggtca ttcaaatgac agggacagct taggaactca tctttcttac 360  
 atggatattg gagacacccc attgcgtgc 389

<210> 17079  
 <211> 324  
 <212> DNA

<213> Glycine max

<400> 17079

agcttggtttt ttaatttatt gtatgggttg gatgttgaat tctggttggt cctgggtgagg 60  
aatgatagtt acgtgggttg aatccttaag gaaagttctt ttgtgtgagg aagcctataga 120  
tctt tctt tctt tctt tctt tctt tctt tctt tctt tctt tctt tctt tctt tctt 180  
aaacaggaat gcttagatga tataaatttg aatgaugaat gttagagggg gtgtgaagca 240  
aagggtogaat ttgttttttg gtgaacgttg tattaatgtt aagtgtattcg ttgtgggcacg 300  
ttcagattgc agtagctgct ataattcctc tagcaaacaa atgcccagct tgcacctcag 360  
tttttcaaac tgatttgcct ccaaagcctt tgtg 394

<210> 17080

<211> 382

<212> DNA

<213> Glycine max

<400> 17080

agctttttacc catgacttcc tatgggtggtg agcttgttct tgactcatct tctccttgaa 60  
gtggggtctc caatcacctt tctccttctt ccattccgct accattgac ttcaagaagc 120  
aaaggactcc attgatgagg aagatccaag gctacaagc tctacattga gctacatcat 180  
gtgggtattag agcatcttca tctaagcgat gttctttttg tctctctatc tttttgttcg 240  
gtcaattgac ttttaattct tgtttcttcat catcttctcc atgtatctgc tccattgtct 300  
tatggttttg ctatttttag agtagattca acaaaataaa cagattaaat cttagataag 360  
cactggttct tgcatttcta tg 382

<210> 17081

<211> 280

<212> DNA

<213> Glycine max

<400> 17081

gcttaggtcg aaaacggcag gctgacctt ggtcattac ctgtcatggg attttttaag 60  
ctctcgctcg gcttacatga aagtctggct agggccacga tctatattga aagcttgcct 120  
aaagacgtct ctgataaatc aattatttta aatcctaag aaataattac taaaaaaga 180

aaattatgaa atcctttatt agtaatgcac aaattctaaa ataattgata aacaaaatga 240  
 ttatgaaatc taactgtaaa gcacacagta tattaataaaa 280

<210> 17082  
 <211> 187  
 <212> DNA  
 <213> Glycine max

<400> sequence of all 5 locations  
 17082

agctttttct tctgatccag acaaggctca aggtagcttg gctatccgac ttttgagaaa 60  
 tataattgca tttcccatgc tgattgacag aggtcgacac tcaataagaa atgatacata 120  
 actaccaatt ttgtctgtca agtctctcac aagagtcttc tcaggtggaa ccttgtagtc 180  
 ttgatggcc tcttgaaatg ctggaagcat tgcattgcaa cgagcattgc caccagatat 240  
 attctcagtt agatactgca agccacctg aaacaccata aaacaagatc attaagattt 300  
 gggaaaaaat atttcaaaag gcttaggtca caaacatat tgacctgacc caggtcttaa 360  
 tcaatgatat tcattaaaa accataaatt ttaatt 396

<110> 17083  
 <111> 395  
 <112> DNA  
 <113> Glycine max

<400> 17083

agcttgtaat ctattacaca catactgtaa tagattacca taagacatta tcagaaaata 60  
 tcttcaattg tcacatcttt tcatttggat ctggaatggc tatcaaaggo ctatatatat 120  
 gtgaattgag aacagaattt gctaagagtt ttccacaaca aaaaggtctt atctctttaa 180  
 aaagacaaat cgtttttatc tcttacaat tcttggcca caacacttgt gattcaataa 240  
 ggaattatct gagtgtctca attgatcaat ctatcttttt caagagagat atcgtcttat 300  
 ctctctctct attctgaaaa gggattaaga gaccgacggt ttcttgttgt gaaataattc 360  
 taaccacaat agaagaattg tctt 395

<210> 17084  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 17084

atctttttcca gatagaatgt caaagatgga cgatacttta acacaattta tgcaagtatc 60  
cagcacaacc cagaagaaga ctgatgcate tattaaaaat ctayaagttc aagtatgaca 120  
cttt 180  
tt 240  
taatgatgaa aaaagaataa aaaaagagtt gaaaagaaa acacagaaaa tyatgaagty 300  
atgastagty aaaaagtgga agacaaagty gtaagtgaag aagagaagaa gatatcaaat 360  
gaacaaaaca gtaataaagg taaagct 387

<210> 17085

<211> 370

<212> DNA

<213> Glycine max

<400> 17085

agcttgttct tatacaaacg accataactt tttaactegga tgtttgattg aggcctcgtaa 60  
tatatcgaga cgctcgaaat tgaatgttga agctctgaac caatataaac gacaatgacc 120  
ttttaactegg atgtatgatt gagtcccgta acatategag acaactcgaaa ttgaatgttg 180  
aaactctgag catattcata cgacaataaa ttcttaactca tatgtctgat tgagtccttg 240  
aaattatcga gacgctcgat attgaacgtt gaagctctga gccaatatac acgaccataa 300  
cttttttaact ggatgcctga ttgatgctcg taatatatcg agacgctcga aattgaatgt 360  
tgaacctctg 370

<210> 17136

<211> 389

<212> DNA

<213> Glycine max

<400> 17086

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ctgtctgaat ggtctgtaat ctctctccat catttatcttg tgcatacaat aagcgtggct 120  
gattcttttg agatctgata tgcaccacat aattgcccct cgttatctct taaggacctt 180  
taacaaacctg tttttttttt ctgtctgag cttaactgctg atcaccacag gcttggtctt 240

gttttttttt aagaacacat acttcaggtg gttgggtagg attttcagct ttaccttggg 300  
 cttctcrgat ggaatccgcg ttttcaatc ttogaaactg gtcccatta cagtaaat 360  
 gtcttcacaa tctaagtctt ccaagaaag 389

<211> 144  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17037

tttttttttt tccatctctac gcatggaaga cctttcctca ttttttttc atgtaccaac 60  
 ttcaaagctt gagtgtggaa gtgaccaaat cttcgatgoc ataaccatga atcatcaatt 120  
 gtgtccctca tggaaaagct agtactagta gtatacttga agcttattgg aaaaatacta 180  
 tttaacttca acattttaac ttgacaatc tctgtgcttt tcttagttgt atcaaatact 240  
 gcaagtatct cctttgaatg aacagattag tctttctcca tcaattgttt aatgcctaag 300  
 agattgtctt taagatctgg aactaaccat acatctctga tgaatcttgt acctttcttt 360  
 gtctacagca tcat 374

<210> 17033  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17033

tgtctangtta ttttcataag ctatgagctt taacttattc agctcattca attgttgcct 60  
 cctgaagcta cctacaatcc taagatcaga gttcataaac tatatagccc acatggctgc 120  
 gtgaacaagt ccaacaagca gatggaaatt ctttcataaa actatactaa agggagacat 180  
 catagcggga gccctacagg gttttatgta tgcctatatt gtgtcctca atttcaatga 240  
 ccaaatcttt ctatatgctc tcaagtttt ttgtaaaaac ttctatagat accatttata 300  
 taactcaact taaccaattg cttagtggtg atacaaagta ataaccctat gggtaacacc 360  
 atatttagcc acatggctat cagacaa 387

<J10> 17089  
 <J11> 391  
 <J12> DNA  
 <J13> Glycine max  
  
 <400> 17089  
  
 agatcaga gaaagc ctc agctc aaatc aaaa agatcctc ctc cctaac  
 agaataaagt aaagacacat ttttggtctg gatgatacat tcataccttg taaagaaaaac 180  
 atcatatcca ttgtacata attgagttat gtcagtaga ttgtgtttga gccatttaaa 240  
 aaataagaaa ttatcaatag gaggatatgg atgtatacct atcttaccca ctcttggttat 300  
 tggcctttt ttattcctta tgaaagtgat gggtccacca tgataaggag tcatacattg 360  
 gaacatgcac cttctctctg tcacgtgcc a 391

<J10> 17090  
 <J11> 367  
 <J12> DNA  
 <J13> Glycine max  
  
 <400> 17090  
  
 tatcttgat cgggtgcttg atgtcagggc gatgtttcct atcccaaacg tcttgctcct 60  
 atcttgattt cccatttgca tcgtacaaaa gtcaccgctt tggtaggatg agaagaaact 120  
 tccatgtgga gtaacatgga aggaggcacc ggaatcgaca atccaagagc tatcatcaca 180  
 agcaatgttt atgatattac cttcaccaac gagatataac aaatcttctt ttgaaactac 240  
 ggcagttagta ttctcttttt cttctctctt tgttgggctg aactgggtctg gcttaacgtt 300  
 acagattgtg tgatctctct tgaaggattg acattctatc ttctgtggc ccatacttcc 360  
 acagttag 367

<J10> 17091  
 <J11> 393  
 <J12> DNA  
 <J13> Glycine max  
  
 <400> 17091  
  
 agcttcattc ttctcttta gtaatgcctt attcatcata tcataccat taaaggattt 60  
 cactttcaaa gggccacaaa catttgaatg caccaatcca agcaactcaa attttctgga 120



gggagaatgc ttcttgaagg atactctggt ttgcttacca accatgcaac atgaacattt 180  
 ctccaaattt gcattcttca atcttagaaa catatcttcc ttggttaaaa aattcagccc 240  
 tttctcaata atatgaacta gcttccagtg ccacaaaaat gcttccatat ccataacatt 300  
 tttattctct ctacacaa agctcttctt ccaattcaac ttcttaattt tttcttctt  
 ggtccaaatt atgttacctt taatgaattt ccacttcc

<210> 17092  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 17092  
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 atacatcgag acgtctgata ttgaatgttg aagctctcag caaattcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgagtccag aatacatcga gacgtctgaa actgaatgtt 180  
 gaagctctca gctatttcag acgacaataa cttttttact catatgactg atcgagtcgc 240  
 gcaatatatc gagatgatcg aaagtgaatt ctgaatctct aagctaatto taactacaat 300  
 aaattttctg cgggatgtct gattgagttc cgtaatctac tgagacgctc aatattg 357

<210> 17093  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 17093  
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 tgaaatattg ggttttctac cattaaacag ttcatatgga gttttcttta aaatgggtct 180  
 tattaaagac ctattcatga tataacatgc agtattaacg gcttcagccc aaaaatattg 240  
 tggaacagga gttcatgga ataaaggtct agcaatctct tccaaagatc tattattctt 300  
 ttcaacaact ccattttgtt gaggggtctt aggtgcagaa gaattatgtt caatccatg 360  
 cttttcaciaa aatagatcaa attctttatt ttc 393

<210> 17094  
 <211> 241  
 <212> DNA  
 <213> Glycine max  
  
 <400> 17094  
  
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 tttttttt aa aggttgagat tttttttt tttttttt tttttttt tttttttt 120  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 180  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 240  
 g 241

<210> 17095  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
  
 <238> unsure at all n locations  
 <400> 17095  
  
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 aaacaaaggg ttccaaagtc atgcaagggt ctggtaatcg attaccagaa gggaagtttg 120  
 agaaatagct gttgaaaagg gttttgaaat tgaaatttga acatgtaate gattaccatn 180  
 tttttgtaat cgattaccag caatgaaaact cctgatattc aaattcaaaa gtcaagaccc 240  
 ttcaaaatat aattgtgtga tcgattacca gaaacctgta atcgattacc agtgaagaaa 300  
 tttatataaa actttcttgaa aagacacatc tttttacacc atattgaaaa ggcattgaatg 360  
 gcttatatat atgtgtgtgt gtgaact 387

<210> 17096  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <400> 17096  
  
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 accagacatc ttgcacaca aagtccaggt caccataact cgcctgtgct ttttttcca 120  
 ttttatatgt agcaaaagta ttgatccagt aatttttgat gattttgaaa atgagggcgc 180

aattataactg tgcacagctgg agatgtatctt tccccctgct ttcttttgaca tcatgattca 240  
 cttgattgtg catctgggtca gagaaatcaa atgtttgtggc cctgttttacc tatgggtggat 300  
 gtaacccgggt gagcgataca tgaagatctt aataggggtat acaaaagaatc tatatcgctc 360  
 tgaagatctt atttttgaga gttatatttt gttggaaggtc attgaaatct gttcagaata 420

<210> 17097  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17097

aatggatgta aagagtgcat ttttaaatgg cttgattcaa gaagaagtat atctagatta 60  
 tccccatgga ttgaaaaact cagacaagcc taatcatggt tataaaactga aaaaggcttt 120  
 atatggtttg aaacaagccc caagggcttg gtatgagcgt ctgagtaaatt ttattttaaa 180  
 taaaaaattt totagaggta aagtggatcc cactcttttt ataaagagaa aactaaatga 240  
 tattctattg gttcaaatat atgttgatga tattattttt ggatccacta atgagtcatt 300  
 atgcaaggaa ttctctcttg acatgcaaag caagttcgaa atgtcaatga tgggagaatt 360  
 gaattacttt cttgngttac aaataaagca aactaaagaa ggaatanctt tcaaccaaga 420  
 aaaatact 428

<210> 17098  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17098

tanacattca atttcgagcg tctcgatata ttaacgggact ctatcaaaaca taagagaaaa 60  
 aagttatagt ggtttgaatt tctcttcagc ttcaacatcc aatttcgagc gtcccgatat 120  
 atattacgag actcaatcag acatccgaga aaaaagttat tctcgtttga attggctcag 180  
 aggttcaaca ttcaatttcg agcgtctctg tataattatgg gactcaataa gacatccgag 240  
 taaaaagtta ttgctgtttg aatgtgtcca gaggttcaac attcaatttc gagggctctg 300

atatattatg ggactcaacc agacatccga gtaaaaaattt attgtcgttt gaattggctc 360  
 ataggttcaa cattcaattt cgagcgtctc gatattattac gggactcaat caggaatccg 420  
 agtnaaaagt tatgtcgttt gatttggt 448

<210> 17100  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17099

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 ttatgatctt tcaagcaaca aatacaatcc aggttggagg aatcatccaa atctgagatg 120  
 gacaagtctt ccacaaaaac aacaacaacc tgtccctctt ttccagaatg ctgttggctc 180  
 aagcaagcca tatgttctct ctccaataca gcagcagcaa tagcaaacgt cacaacaaag 240  
 acaacaagca actgaggccc ctctccaacc ttcttagaa gagttagtta ggcaaatgac 300  
 catctagaat atgcatttcc agcaaaaagt aagagcctcc attcagagtc tgacaaatta 360  
 gatggggtag atggctactc agatgaacca agctcagtc taaaattctg acaaattgcc 420  
 ttgcacaaact atgcagaatc cgaaaaaatgt gagt 484

<210> 17100  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17100

tgcatagcag ntctactac ttaagctgat tacatagttg tatgaagttg ttgtactcaa 60  
 agtctttgga tgaagcaaca actcgaagac ttgggagtaa accttgatca catctctcta 120  
 aaatgtgaca acacaagtgc taccaatcta acaataaacc cagtcaagca ttctaggact 180  
 aaacacatat aaataaggca tcattttctt agagatcatg tgttaaaagg tggctgtctc 240  
 atttagttca ttgatagtga gcattcaact gaagaaaatt tcaactanac ttctctaga 300  
 gataagtttt ttattagaaa tgaactatgc atgttagatg catctagcat aaaatgacat 360  
 tctgtttgca tagtgtgtga tgcacattgc tactcatatc natttgttt 420

<210> 17101  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17101

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 gttttcagaag aagatcgaggc tcaatgtgat aaaaaacgag agggagagagc taattcctac 120  
 tgggttgcat aacagttaga gagtctgcat tgattatagg aggttgaacc aggttaccac 180  
 aaagraccat tttcccttgc cattcattga ccagatgctt gaacgccttg caggttaaacc 240  
 ccactattgt ttccttgatg gttttttctg ttatatgcaa attactattg ctcttgagga 300  
 tcagaaaaag accacattca cctgcccctt cggcaccttt gcttatagga ggatgccttt 360  
 cggctgtgca aatgcccctg gtaccttcca ggggtgcatg attagtattt tcagtgaatt 420  
 ttagaanatg catagaggtg tcatggatga tttcact 457

<210> 17102  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17102

agcttcttat ctaatgctca tcttggtggg gaagcttctt cttccaagga ttattcccta 60  
 atggatggag cactctctct cctctctctc ttgtcttcc gctgcatctc catgggtggaa 120  
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
 gcaagcttcc taaggtgttc ctcttcagtt ttagacttgg cgatcatgtc gtctatgtag 240  
 atttcgactc ctgggtgcat catgtcttgg aacacagcca ccatagccca ttgatagggt 300  
 gcccagacgt tcttgagccc aaaggacctc accttatagc agaaccttcc nccacagggg 360  
 acgacacatg gtcttttcca tctctcttgg tgcctcttt atctg 405

<210> 17103  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17103

ctcaagcttg ctcaaccatg gaagctecta atatctacca cactntntgg ggtggggcat 60  
 tcttggatgg ccttgattnt ctcagggctc acttggagcc catttctacc aaetacaaaa 120  
 ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata 180  
 ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata 240  
 ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata 300  
 ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata 360  
 ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata 420  
 ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata ctcaacata 468

<210> 17104  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17104

tctaaaggag gtcaacaaca ggatgggtgt aaggaaactat ggttgattaa actttctagc 60  
 aaaataacag tttttgcttg gaggttaata gaagataggc taccaaccaa gatgaattta 120  
 cataggagac atgtgcaact gcaggatctg cgatgtcctt tctgtaaaga agctgtagag 180  
 gaggcactct atttgttctt ccattgcac ctcaccaac caatttggtg ggcacgatg 240  
 tcttggctga actatcatac tgcctttcct cttgggccta aacaaaattt tctacagcat 300  
 atcttcaactg aggtaaaagg attaaagatt aagagatgga gatattgggtg gatggcggtc 360  
 acatgggcta tatggaaact cagaaacaga attctgtttt cgaatgcaga attngatgct 420  
 aacagattgt ttgatgaggg ctgtttct 448

<210> 17105  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17105

tgatgataaa ggtgaaaaat gtatcttctt tgggtgtagt gttcagtcac atttatataa 60

attgtataat oetaccacta aaaagatcat tattagtcgt gatgttggtt tttatgaaga 120  
 aagattntgg gaaaataaca tagatgaaac aaatcaaatt cttgcaaaat ttgatgaaga 180  
 gttgagaca aggttgotag aagagcaaca aatttcagca atcacagttg aagatgaaag 240  
 ggtatgaaat attatgagc atgtgttgc atattttgaa ccttcaaat ttgaaagta  
 tctaaagaaa gaaaacgga gaaaagogat ggatgatgaa attgatccca ttaaaagaaa 300  
 tgatacttg ggattgtgtg atcttccaaa tggacataat at 360

<210> 17106  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17106

actcaagctt atctgctcat acattgcctc ttcttttgaa aaacatttct ctacgagaat 60  
 ctcatccact atcatctaga gcttggtttc tgaatgacaa gtgataaatg acagtcgaag 120  
 caactttata aagcatgatt tgaatagaaa agtataaatg tatactaata tataatatta 180  
 ttatagcgca ttaatatatc taacttataa ccattttatt atctctttta taatatactc 240  
 tcttctatct ccattttctaa catatattt aataaatcgt tctagaaaat ggtaaatatt 300  
 taattatcgt tatatcatat ttaaatgtt catcttcaat tcagaatata atgtatgaat 360  
 ttagnaatat ttayttatta taataaagat ttaattatat aaaaacaaat atcgtcttga 420  
 agaagcttaa ttgcctcta tctctatt 449

<210> 17107  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17107

tgacccttac gagtcagttt agtcaaatgt ttacctaact atgagaaacc ttctatgaat 60  
 ctcatgtagt atctgtctaa gcccacaaat ctctaatct caaaaataga tttaagactc 120  
 tcccattcaa gaagcacttc tctctagag ggaatcaca ctataccccc ttgagatata 180

acatacccta ggaaactaac tttctotaac caaaactcac actntgacaa gtttagcataa 240  
 agtggcgggt cccaaagggg atgtagcaca atccgaagt gttcttcacg ttcctctota 300  
 gtcttgaggat ataccaaaat atcatttatg aatactacca caaaactatc tangtaaggg 360  
 ttttgaattt tttctattta atatatpaa accattttaa ttttgaattt ttttgaattt  
 ttttgaattt ttttgaattt

<110> 17108  
 <111> 428  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
 <140> 17108

tctgggtggga catcttgact tgccttccaa tctgacattc ttcacagatt ctgccttctt 60  
 ctattttcag attgggaatg cctctaacag cacttttgct aataattttc ttcattgctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattctct tgggagaata 180  
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcttttgatc 240  
 tgcctgcctt cattaggact tcaactctct catttgctac caagcattct gactttgtga 300  
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360  
 ccttcaccag cagtactttg ttcagactan gaagtcacac atggactagc tttcccatc 420  
 cagtgate 428

<110> 17109  
 <111> 406  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
 <140> 17109

tgtatttcag tatcttattg atcagttatg ccaaatgcct gtattggcct tacttgattn 60  
 tacaaaagact tttctagtgg aggtggatgc ttcaggagtg ggggtcggag ctgttctcat 120  
 acaaatcac cattccatag cctttataag tagaagctta aatgttttagc aacaatccat 180  
 gtcaacctat aadaaagagt tactagctgt ggtgtttgtt gtacaaaagt adagacatta 240  
 cttattacct aagcagtttg taatcaaaaac tgatcacaaa agtcttaagt atattcttga 300



ccagagaatt tccacagctt tccaacaaaa atgggttggtt aaacttatgg aatttgattt 360  
cattattgaa tacaagtagg gaagtggaaa ccaagctgct gatgca 406

<210> 17110  
<211> 117  
<212> DNA  
<213> Glycine max

<400> 17110  
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gtcataaact ttaactcgga tgtccaattc atgcgcacaa catatagaga cgtcgaaaaa 120  
tgaacaaagg aagctctcca gaagttaaaa tggtcataag ttttcacact gatgtccgat 180  
tcaggcttat atttatatga gacgctcaaa atttaacata gaaagctctc gagaaattca 240  
aatggtcata acttttcaact cggatgtccg attgcagcgc attacatata cagaactctg 300  
aaaatgaaca acggaagctc ccgagaaaact caaatggtca taacttttta caactgatgc 360  
cgattccaggc ctataatata tcgagagcgc tcaaatataa caacggaagc tcttga 416

<210> 17111  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 17111  
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tcttctattt tcagataggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
cctcttaagt gcagatgtcc aaatctttga tgcacatctc tgacttcata ttctttggag 180  
gatagacatg tggaggagta actggtttct tgaggtgtcc ataggtagca gatgtgcttt 240  
gatctgctgc ccttcattag aacttcaact ttctcatttg tcaccaagca ttctgaattt 300  
gtgaagttta cattgaatcc ttcacacac agctgaactga tctgataca gtttcagctc 360  
agtcccttca ccagcagtag ttgttcaga ctagggaact catcatgagc tagct 415

<210> 17112  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 17112

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tatattctaa aatataaatt gcattggtaa tatattaata tgtagaatgt ttgttttaca 120  
tctgttctgt gttcttctct tctgttctct tctgttctct tctgttctct tctgttctct  
gggtatatac taataatgtc atataaatc taataatgtc tctgttctct tctgttctct 180  
tcaaaaaat atttatagct aaaaaataac ttgaaaatc ttgttctctc ttacaaacaa 240  
tgcctaaaag aaataaaaaac gagagaatga aaataaaatc gaaaatagtg aagggggaat 300  
attcatttga tctggaaaat attactacta ctatta 346

<210> 17113

<211> 434

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 17113

tctatagaag gttcgttctt aatttctctt tctttggatc tctctcctaat gagctggtga 60  
agaagaatgt ggcatttacc tggggtgaaa aacaagagca agcctttgct tttctcaaag 120  
aaaagcttac taaggcacct gttctagctt tctctgactt tctaaaaact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggag ttgtattgtt acaagggtggg caccctattg 240  
cttatttttag tgaaaaactt catagtgcac ccttaacta cccacctat gataaagagc 300  
tttatgcctt aataagagcc ctccaaactt gggaacatta ccttggttcc aaggaattng 360  
tcattcatag tgatcatcaa tcaactaagt acattagagg gcaaagcaag ttaacaaga 420  
accatgcaaa atgg 434

<210> 17114

<211> 300

<212> DNA

<213> Glycine max

<400> 17114

tcaaaatggt aacaaaggag ttgagcatgt ataaagattc tttcttcaac tttagaggt 60  
gaatttgagc gttgttttat gtaggagtc caatcaattt ctgattatt tctcagaga 120

ttggcccgta tcaattaact taaaagaaat ggtgaagacg tttatgaagt gaaggteatg 130  
 gaaaaaatac ttccaaacttt acatccaagt ttggaacttca ttgttaccaa cattgatgaa 240  
 aacaaggatg taaagaccat gactatcgag caacttatgg gttocttaca agcatacgaa 300

<210> 17115  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17115

tcaagaaaaa gatggcctca gcaaaactct tatctccaga ttggaattct atcaatagac 40  
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcac atttttatcg 100  
 aggcgaataga tctaaatata tgggaagcca tagaaatagg gccttatata cccaccacag 160  
 tagaaagagt tcaatagat ggtagtctat caagtgaag cacaaccata gaaaaacctc 240  
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanac gccaaaaaca 300  
 taataacatc tgccttagga atggatgaat atttcagagt ttcacattgc aagagtgcct 360  
 aggaaatgtg ggacaactctt cgattaacac atgaaggaaac taagatggtt aaaagatcta 420  
 nngataatgc actaactcat gagtatgaat tat 453

<210> 17116  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17116

agcttatagc ctcttcaaac gacaataact ttttactcgg atgtctgatt gagaactcgt 60  
 atataacgag atgctcgaag ttgaatgttt aagctttgag ccaattcaaa cgacaataac 120  
 ttttactcgg gatgggtgat tgagtcctgt catatatcga gaaactcgaa attgaatgtt 180  
 gaagctctga gcccaattcaa acgacaataa ctttttactc ggatgtgtga ttgagtcctg 240  
 tcatatateg agacgtcaa aattgaatgt tgaagctctg agccaattca taagacaata 300  
 acttttactc cggatgtctg attgagtcct gtaatataac gaaacgtctc aaattgaatc 360  
 ttgaacctct gaggacattc aaacgataat at 392

<210> 17117  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> ensure at all n locations  
 17117

aaagatttga aatgaggttttgatataa ttagagcttcaattgaatatttgaatatt  
 aggttatttgt agtttgaatt tgcacagagc tcaaacattc aattttcagc gtcacgatat 120  
 atgaaggggac tcaatcagac atccgagtag aaagtatttg tggtttgaat tagctcagag 180  
 ctcaaacatt caatttcagag cgtctcgata tctgacggga ctgaatcaga catccgagta 240  
 caaagtattt gtggtttgaa ttgctcaga ggtcaacat tcaatttcga gcgtctggtt 300  
 atatcaaggg actcaatcag acatccgagt ataaagttat tgggtttga attctctcag 360  
 agttcaaca tcaatnttg aggtctcga tatatgacgg gactcaatct tccatccgag 420  
 1 421

<210> 17118  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 17118

atctttaaca tagaaacctt gttagattag tgccttgaca ggcttgataa caagaacata 60  
 ttgtgtgggtt tgacaagaac tatatacagc tcatgaatat tctccaacgc agcaccactt 120  
 ggaaggggttc tacacccaat gagagtcgag gttgtgttga ttgccaaagt tcaacataga 180  
 aacctagtta gatttttggg ttactgtgtg gaaggagaag aaaaaatgct agtatatgaa 240  
 tataagccaa acaaaaagctt ggatgctacc attatttttt gtaagactat ttattgcatt 300  
 tgaattattt tgtttacgtg cttttttttg tacaactaaa attctatttt gaagtagact 360  
 aatgtaattgt atcatgcccc taatgaacta caagaactgaa agttgtgtgt 410

<210> 17119  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<220> ensure at all n locations

<400> 17119

tttgttttga attcatttnc aattacctct tagttctgaa cgcattgataa taataatgac 60  
caaaagcata caaaagcatga taatatgttg gacagagctc ttcatttttt tgccttggtg 120  
aatcaattc caaattggcg cttttgggta agtgcttatt caattgattt gaaatttttt  
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt  
taatatatca ttttaagaga agtttatatt caaatctaat agtatcttt caattataat 240  
gaaaatttta ttttagagaat aaaatatgga gtttatagta togattaana gtttaataatt 360  
ttaaattaatt catatattag agagtgtatt gaattgtatc aatattgggc agcggctgan 420  
aatgaaaaca 480

<210> 17120

<211> 402

<212> DNA

<213> Glycine max

<400> 17120

agcttttact ctctatgtct ccattatcca gcaatatctt ggctcttttta tttggacatt 60  
gagaagcaat atgtccaaact ccttggcacc tgaaacattt gatatcatgg gatctagaag 120  
atgaattaat ttcattttta cctttaggcg tagcaaatga attttttggac ttagcttcat 180  
ctttttgact ttgtccacaga tttgtttgtt tgcgaatttg acttccacaa agaagtggaa 240  
gcaaattttg aagtactatt agcttttgcatt tgcctttcca cttgaataga tttgtgcaac 300  
aagtcttcca tctccacata atgtacaat tctaccatat tagctatctc tttctttata 360  
cttccaatga atctggccat agttgctcca cagtcttctt ca 402

<210> 17121

<211> 443

<212> DNA

<213> Glycine max

<400> 17121

ataagttagt tataccatag tctaaatatt aatatcaatt tatggaaaac taatgatcaa 60  
tcttaccatgc acaggtataa taaattataa attatgaata taattgaata ttaattcatg 120  
tgtatgaat atttactcta atacttarta aaatttcttt tcttggaaac tgcgaagcca 180

ctaattgattt aattttttta taggaattca cttttttaat tttcataata aaaaatgatt 240  
 ttaaataaac aagtcatttg tcaaaaatgt tattataagg aaaaatttac tagaaataat 300  
 caatcaaaat tactcatcaa tagatacttc attaaattac ttaaaatata acattatagt 360  
 catcatatt taaaaggata taaaatcaa atcaactact aaccaaatcc taaaatatt 420

<210> 17122  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17122

agctttaags aaaatcaatc aacaataaca ttttactctc ctgtcccgatt gtctcccggt 60  
 gtatatcgag acgttcgata ttcagaatag aagctctgag caaaatctaa tgacaataac 120  
 tttttctctg gatgtccgat tgtatccctt agtgtattga gacactcgaa attcagaata 180  
 gaagctctga gcaaaatcaa atgacaataa ctttttactc agatgtccga atgaatcccg 240  
 taatatatcg agacgtctga aattcagaat tgaagctctg agcaaaatct aacgacaata 300  
 accttttact cagatgtccg attgtgtccc gtagtatatc gagaacgcacg aaattcagaa 360  
 cagaagctct gagcaaaatg aaatgacaat aactttttac tcggatgt 408

<210> 17123  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17123

agcttgtgca ttaaatatcc taatgaggyt gtcccatatg ctctcaaaac tggactaata 60  
 catttactgc ccaagtttca tgatcttga ttggaagatc ctcaataagca tcttaaggag 120  
 tcccatattg ttgttccac catgaaaacc ctgtatgtcc aggaagatca tatctttcta 180  
 aaggtcttct ctcatctct ggaggggagt gcaaaagatt ggcataacta ccttgcctcc 240  
 aggtccattt ttagctggga tgaactttaa aggggtgtct tggagaaatg ttcccttga 300  
 tctaggaaca ctgcctcaa aaagacatt tcatgcatca tgcacttat tggagagaga 360

ttgtatgagt attngatag attcaagaaa ttgtgtgcaa gctgtcctca ccacc 415

<210> 17124  
<211> 410  
<212> DNA  
<213> Glycine max

ttgtgtggtt ttttgatent agataaaaact aatgtgtgta aatttatatt gtttgaaaact 60  
aatttataag tgatatgatt aatgtttaga tattttcatt atgaaaactta agagtataat 120  
ttagtataat ttttatatca aattctaaaaa ctattcaaaa ttattttaaac ccaaaatcaa 180  
ttatagatcc aaattcaatt ttcaaattct ctgtatgcat aaaactaaag acaagagtat 240  
atctaaaata aattctaaac tcaaaataaa ttctttttaca tcaaactaaa cacatgatga 300  
tattttatct ttagtgttga atttataaaa tattaacact aattctaatt ctgaggggtga 360  
ttgttcgggt ttaagatatt agatgttgct ttaagttgaa aatagataaa 410

<210> 17125  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17125

agcttaacat cagaccactt ccaggggtgct ggaactactt cacatggact tgatggggcc 60  
tatgcaagtt gaaagccttg gaggaagag gtatgctat gttgttgtgg atgatttctc 120  
cagatttacc tngtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180  
gttgagtcta agacttcaaa gagaaaaaga ctgtgtcctc aagagaatta ggagtgaaca 240  
tggcagagag ttgaaaaca gcaagtttac tgaattctgc acatctgaag gcctcactca 300  
tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacaggac 360  
tttgcagaa gctgttatgg tcatgcttca tgc 393

<210> 17126  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 17126

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tctatgcctt ggatcttgtt catcaatgtg tttccattgc ttcttgaagt tcaactggcag   60
atgaatggag aaggaagaaa tatgattgga gatggaactt caaggagaag atgagtcgaag  120
tctatgcctt ggatcttgtt catcaatgtg tttccattgc ttcttgaagt tcaactggcag  180
atgaatggag aaggaagaaa tatgattgga gatggaactt caaggagaag atgagtcgaag  240
atcaatgat ccaaggccta caagctctac atggagctac atcatgttgt atcaaagcat   300
ctctctctac gtgatgttct attgcttctt ctatcttttt gtttgggtcaa ttcactttaa  360
tctctgttct ttcttcagt atctctctca ttgtctctgt gtttgggtgat gtttagagta  420
gattaaaaaa gataac                                     486
  
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<210> 17127  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17127

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ttttagtctt tttttctatc tttagtaaaa tgtgatttgt tctttgaatt tcttcaacct  120
ttgtccaatg ttcacttgat tctaatttat agaatgagca atttagatgg tattattggt  180
ttgtctgata aagcagaatg ttaaatgcaa ttataagta tatatttata agtaaattgg  240
catcatttcc tgcgaactcaa tacaattaaa cctattgtat ctatgctaaa taagaactta  300
aaatgaacta tataaaaatta ttaattgca cgaatganat tatattcctc taagagcttc  360
aattatttga attacgcagc aattntatga acgctgttg                                     399
  
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<210> 17128  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17128

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agctatcttt ctggtggtga tgggtctctg ctcatagaat ggcattgaca ctgggtgaca   60
tggtctcaat taactcagtt gcttctctctg gggctctcag ttttatcttt ccccttgcag  120
  
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aagpatotaa caattgottg gtttatggtc tcaapccatc tataaacata ttaaatoogaa 180  
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 <212> DNA  
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 ggttaatttc agtcatgacc tcttgggaagt aattatgtct ttgtctctt tggatatctt 240  
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 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
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 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
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 gtgacttgag acacgaattt gcgaagagtt ttccaaaaca aaaaagtctt atctctttat 180  
 aaagcaaaat tgttttatcc tcttcaaaat tcttggcca aattacttgt gattcaataa 240  
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 ttcttcttca ttctgaaaag ggattaagag accgatgggc tcttgttgtg aaagacatct 360  
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<223> unsure at all n locations  
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taagaacatg cagattgtat ttgacagtgt gcacagttta agcaagt 407

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<210> 17134  
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 <212> DNA  
 <213> Glycine max  
 <400> 17134

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gggcataccc caaagaagtg tactctctcc ccagcatcaa taggttggtc gatgaagcgt 180
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tcataccatt cggcctagaa aatgcaagcg cgacattcca atgaccaatg gaccgagtct 360
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<210> 17135  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <400> 17135

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atcaatggag tcttttgctt ctggaagatc aatgttaata gaatagaaaa ggaagaaaag 180

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tgattggaga tgcgaattca aggagaagat gagtcaagaa caagttgacc accataagaa 240  
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 abgaaatcta tttctacat gaggtctgaa atttgaagtg taatttctca aattatcaaa 360  
 gttgaataa atgaaaaa 420

<210> 17136  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<228> unsure at all n locations  
 <400> 17136

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 atcctcctc tatcttactc accaagcagc ttagtctatg aaaagatgca tgcctcaatc 180  
 ttagcatata aatattacct attctcttac caatgtggac aactttacca gatatggctt 240  
 caattataag atagcaattt ctgtcaaact caatcttgaa acctttatcg caaagttgac 300  
 taatgtttag aaggttatgc tttagtgcac ccatatgtag cacattcttt atctgagttt 360  
 tgtgttaatt ccttatattt ccttcccccag ttattttt 393

<210> 17137  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 17137

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 tgatttcaag attcaagaga agatgaattc aagattcaag agaagaaatc aagaagactt 180  
 cacaagggaa gtattgaaaa gatttttcaa aaaacaaaaca tagcacagtt tttttttca 240  
 aaacagtttt tctcaaaatt ttcaagctc ccagagtttt tactctctgg taatcgatta 300  
 ctagtctcct gtaatcgatt accagtgcca aagtttgatt tcaaaagttt tcaactgaat 360  
 ttgcaatctt ccaatttaatt tcaaaaatgt gtaatcgatt acaagatatt ggtaatcgat 420  
 tactagtata tctgaacatt ggaattcaaa tt 480

<210> 17138  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
 17138

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 cctctctctt ttcgaatttg gctctgacta ttctatggag ctttttcaca tagtccactt 180  
 tgccttccct ccttatgctt aaaaactgaa atattagaca ttggtaacaa atcaagagga 240  
 gttagtggat tgaaccata agcaacctca aaaggagAAC aactagtggg gctatgcaca 300  
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 cgttgagggt gacaagtagt a 441

<210> 17139  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
 <400> 17139

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 tctctctcgc ctgatacgt gaccagatgc ccttccacta cgaatttcaa cttttgggtgg 180  
 agtghagagg gaadaacccc caatgagtgg atccatgggc gcccacacag atagtgttag 240  
 ggggggttga tatccattat ttggaaggtg acctgacagg tgtgaggggc tatctgtact 300  
 gggagatcga tctctccctt aacctctcgg tgggtgcctt cgaaggcagc aaccaccatt 360  
 gaccttggct ntaagtagga cgcattgaat ggtaatttct ccaaagtgtt ctlatgcac 420  
 acattcaaac tgggaaccatt atcgat 446

<210> 17140  
 <211> 405

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17140  
  
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 tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg tgggtgggtg 240  
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<210> 17141  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 tatatgccag attatntttt gataaatgaa tagtttttagg tagtataaga taataattct 180  
 gtgtaattta ttttgaattg ttaatgttat atatgccaga ttatattttg ataatgaat 240  
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<210> 17142  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17142  
  
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caagacttca tataggataa gtattaaaag aatttttcaa aaaccaaata gcacagtttt 180  
 gttttacaaa agaattttct caaaattntc taagctacca gagtgattac tctcragtaa 240  
 togattacta gttatcayta atcgattacc agtgaccggt ttggttntca aaatgttttc 300  
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<400>

<210> 17143  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 tcatgatcat tngaatttct cgagagtttc cgatgtttta tttegagcgt attgatatat 180  
 tataaccctg aatcggaact cagtgtgaca agttatgacc atttgaattt gacgagagct 240  
 tccgttggtc aatttcgaat atcactatat gtgatgcgcc taaattggac atccgtgtga 300  
 aaagttatga ccatttgaat ttctcaagag ctccggttgt tcaattctga gcgtctcgat 360  
 acgtgattng catgaatcgg acatccgtgt gaaaagttat gaccatttga at 412

<210> 17144  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 17144

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 cagtgatccg aagaaggcca ccattcttgc ttccaggat tcatagatgg ttccatccag 180  
 aatgggaggt ctgtacacta ggctctcttc ttctccatg ttcacagaa ttcatctccc 240  
 tagatctcac tcagagatt ccagtgccc ctctgatacc aattgaaatt ctatatacaa 300  
 tgcctagatgt cccacaagat gtcacgacat cagcttccag aacatgcaga ttataattga 360  
 gagtatgaac a 371

<210> 17145  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

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 atgaaaatac aaaaaaaaaag tccttactac aaagactact caaaatgect canaatacaa 180  
 ggctaaaacc ctataatact tgaatggcca aaatacaagg cctaaacgaa ggaaaaaacc 240  
 tattctaata ttacaaaaga taagcgggct catactttagc ccatggactc aaaacctacc 300  
 ctaaggctca tgagaacctt atggccttcc cttggatctc tggcccaate taactggagt 360  
 ctctatcca atgccttggg agggtaggat tgcacacct atcac 406

<210> 17146  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17146

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 atgaaaatac aaaaaaaaaag tccttactac aaagactact caaaatgect canaatacaa 180  
 ggctaaaacc ctataatact tgaatggcca aaatacaagg cctaaacgaa ggaaaaaacc 240  
 tattctaata ttacaaaaga taagcgggct catactttagc ccatggactc aaaacctacc 300  
 ctaaggctca tgagaacctt atggccttcc cttggatctc tggcccaate taactggagt 360  
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<210> 17147  
 <211> 208  
 <212> DNA  
 <213> Glycine max

<400> 17147



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<211> 17143  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<433> 17143  
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 ccatatgtga tgtccctgaa cggacctccc gtgtgataac tcatgacctt ccgaatgtct 180  
 ccgagagcttc cgtctggtcac ttccgagcat ctcaatatat gatgtgcctg aatcaaacat 240  
 ctgagagaaaa agtatgacaa tctcaatttc tcaagagctt ccgttggttc attccgagcg 300  
 tctcgatatg tgggtgtgct gaattctgata tccgagtgat aagttatgac aatttttaatt 360  
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<210> 17149  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <433> 17149

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 tcaatccgat gtccgattca ggaacatcag atatttagac gctcgaaatt aaacaacgga 180  
 aactctcgag aaattcaatt ggtcataaatt tttaactcgt atgtccgatt caggcgcata 240  
 atatatggag aagctcgaaa ttgaacaagc gaagctctcg agaaatttaa atgacataaa 300  
 catttcactc ggaagtccaa ttcaagcgca tcatatctcg agacgtctgt aattgaacaa 360  
 tggaaacctt ggaaatttta aattgcata acttttcaat ccgattgtccg attc 414

<210> 17150  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17151

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 agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
 gaaagcggta tgtgocggct agttactcaa aggacttgaa attcaagctc caaaaaactaa 180  
 ccaaggcaca caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
 caaatattga agaagatgag gaggttaacta tggctcgatt tottaaatgg ttgactaatg 300  
 atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatntg cttcacaag 360  
 caatcaagt ggagcaacaa tt 382

<210> 17151  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17151

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 aaaagttatg actatttgaa ttttcgaga atttccgatg ttttaatttcg agcgtatcga 180  
 tatattataa gcttgaatcg gacatccgtg tgaaaattta tgaccatttg aattttctcaa 240  
 gagcttccgt tgttcaattt cgagcttctc gatatgtgat ttgcttgaat cggacatccg 300  
 cgtgaaaagt tataactaatt gaatttcgca agagcttccg ttgttcaatt ttgagcgtct 360  
 ccatatgtga attgcttgaa tccgacatgc gtgtgaaaag tata 404

<210> 17152  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 17152

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 agggcactca tcttgctttt gaaaaagtct tctccttcca acctttcagc ttctttccaaa 180  
 ggtatctt agaaaaatta aacacttgag tcttgatct ccccaattc atttttgatc 240  
 ttttcttctt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
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<210> 17153  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17153

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 tattaatgat atggactaca aaaactaaaa atgaattaat gatgataagg ttaattttgt 180  
 aaaattatta ttctttttca tttgcttatt agttcttctt ggtctgagta aacaaaactgg 240  
 tatgggaaga caattataat gagatgaagg gagtataaac tctcctcctt ggtgcataca 300  
 gacacacaat ttcagttcaa tgcctttggt tctctttct taagatggta ttggagccta 360  
 tcttaaactc attaccgata acctaccata ttatccatgc accanacca aaaagtactg 420  
 ggcgtg 426

<210> 17154  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17154

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 ttcadaagag tgaacacaa gacttttta ttgaggggat tcaacttaac tagttgactn 180  
 taatcgtcat ttttgcttng tttagagta gatgcttatg ttgagaaatg ggagatattt 240

tatttattta atttaagata aagtctttcc gttgtttact cttgaatctt gatcaatgat 300  
aaagaacaaa ttgtggaatt cgaagaanaa gtaccaaaaa cacctttntt tegtgtattg 360  
gattatgatt taaaaaaatc tggtaatata atgtaatat tttaattaagaa ttttaggaat 420  
tttttanaa ttttaacaaa atgaattntt atactntaa aaaaaatctt ttatattaaa 480

<210> 17155  
<211> 369  
<212> DNA  
<213> Glycine max

<230> unsure at all n locations  
<400> 17155

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atacttaagt aaatatatat catatacaaa attataatct aaaatgagtt gtctgagttg 180  
tatcattaaa taaatttata aatttatact acaaatcagg atcttatcta tatattccaa 240  
aatgaatga atatacacta attatattga aaatgcaaac tacaaggoat tcaaagcaca 300  
aattaattca atatttatat cacaatacac caaaattcaa ccaaaaatta ctgcataata 360  
atttcaata 369

<210> 17156  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 17156

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ggcttgctag ctcatcacca ctctggggga gtggacctga gbaaatatca atctttccct 180  
tgcttgagaa tcttcattga taccagctc taagtcttta gagaaagcct catagaactt 240  
ggttgaatcc tctttggtct ctgtcattac atagaacagc tcaatgcact tcttgaccaa 300  
gctcttacgg atgaccttca agatcttgat ctggtgcaac atttcatctt gaaatgcaca 360  
ctggagatc ttcaagaatca acaataccct ttgac 395

<210> 17157  
 <211> 403  
 <212> DNA  
 <213> Glycine max

ensure at all n locations

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 ttggttttcta attttaagac aatttaaaaa attataataa gtaaaatata agtcgcatat 180  
 ataatttaat aaactattaa ttgggccttt ntaaataatt atttgacatt gattntgctt 240  
 ttaattttta gtgagatgga gtgagtcttt taaacattga aaagtattaa aatctttttg 300  
 ttaattggag taagtctttt attntaatta tgttaagtttg ctctttacat ataataaaaa 360  
 ttggttttct catatatttt ttttatgaaa tgcgagatga gtg 403

<210> 17158  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 17158

tatataacac tcaagcttgt gggaagacac tgcacgaata atcatcatca caactcttga 60  
 tacagctctc tctagacgag tactttgcac gcttctcttc gcacagctat tcttgcaactg 120  
 cggctggttg ctctctatgc tctcgggttg ctctctcttc tttacctctt acggtgcttg 180  
 atatacttaa agatggtaaa ggcggagttc tgcaccccg tatgggttaa ctacctatc 240  
 gctccttgga tatcgtggat tctattgctt caatcggagc catctgtggc gcaacaaca 300  
 gcaacctact tggttctgtg gaggggtgtc acggtgcctg tggtagtgtt ggacgtgaag 360  
 atctac 366

<210> 17159  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<220> ensure at all n locations  
 <400> 17159

atctnatgta tgaagagttc aaaatgagta tgatgggaga attgaagttc ttccctggac 60  
 tttaaatcaa ggaagoggac gaaygaatat gcatacatca aaccatgtag tgaaaaaact 120  
 tctgaagaag ttcaaggtgg acgatgcaaa gcatatgaaa acccccatgc atcccaaccat 180  
 tctacttqda ctggatgatg aatcaacgaa ggaggatcat ctggatgcat ctggatgcat  
 gatatctct ctggatgcat ctggatgcat ctggatgcat ctggatgcat ctggatgcat  
 tcttagattc caaaaggaac caaggaaaat tcatttatat gatgttaaac gcatacttag 240  
 atatttgatt gaaacttcta accttggctc ttgctttaag agagaaatcg aatac 415

<210> 17160  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17160

ctntanatga gcttcacctt tctcgcgact atcatgttgt ctgtctcgtg tgettttagt 60  
 ttatctana tttatcaacg attagtcaac acaaagttac catctcaact tcaaaatatt 120  
 ttctgcttta aaaacacatc aaaatatatg ctactttaga aaatcaagat caattatatt 180  
 tattttaata atatttttgt ttattttctt agtatagact atatatatct ttaatcagaa 240  
 cattatgaag tatggaggat aaaatttttag ctntgaatct ttaacacatt tacatatcca 300  
 aaaatatatt cattattggt atcttatgtg aaatatnta ttaatttaca atattatact 360  
 gtaactcctt taatgaaaat attntaataa aagaacatga gaccagetta ttaaaaatta 420  
 aaaaatggaa acttatcaca cttaaccaag ctagtcaaaa caaatatta 469

<210> 17161  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17161

agcttgatac gttcattcgt gtgaaaagt atgaccattt gaatttctca agagcttccg 60  
 ttgttcaatt tcatctctct cgacatatta tgcaccgaa tgggacatct gtgtgaaaag 120  
 tcatgatcat ttgaatttct cgagagtttc cgatgtttaa ttccgagcgt atcgatatat 180

tataaaccctg aatcggacct cagtctgaaa agttatgacc atttgaattt gacgagagct 240  
 ccggttggtc aatttcgaat atcaactgtat gtgatgcgcc taaattggac attcagagtta 300  
 aatgttatga ccatttgaat ttctcaagag ctcccyttgt tcaattctga ggcgtctgat 360  
 atgggatccg cctgaatccg acatctctca tcaaaatctt caatctctca atctctct

<21> 17162  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17162

ttctntttgg tctcgagaag aaataacatg ttgtctcatc tcaaaaaggc ggagaatgtg 60  
 aatgtatgta tacatgattt tgatgatgtc aaagaagaat ctaacaaggc tacttcaaatt 120  
 gataagcatt tgccttcaaga ataattcaag attgcttcaa caaacaatac cttgtttcaa 180  
 gattcactaa agaccaagcc ttgccttaaa acaaaagtgt ttcaagacat gcaaggctct 240  
 ggtaatcgat taccaggaag tgtaatcgat taccogaaga cagggttgag aaatagctgt 300  
 tgaaaaaggc ttgtgaattg aattntcaac atgtaatcga ttaccatctg tctgtaatcg 360  
 attaccagca acgaaacttt ggaaattcan attcaaaagt cattaacct tc 412

<210> 17163  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17163

ctaattntaa tatgatacat tattgaaaagt tttagctntt aaatagtcac tattataatt 60  
 attgttttat ataataatgt aaaactataa taaacagaac ttggattata attttttaca 120  
 tctacagtaa attctatttg taataattca tacacataca caagttaatt taaaccatra 180  
 ttgagatctg gtttttatat tacctaaccg gcaactaggtt atacgagagc atcattctcc 240  
 caactcattg tgcaagttaa tcaatttccg ggtttttaac aaagattcaa tcaaaatgat 300  
 ccatcatgaa aaagttcata ttaaaaaatg aaccaaccgt attttcacia atgagaaaac 360  
 tactaaagt ttgaattaac catcaacatt gtaaaaaact aaatnigath tghoctgata 420

ggatgctcac cgaacttata ttaggcatca t

451

<210> 17164  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

agtttggaca atggcagtga aatcttggta aaatcctaga taaatctctt gtaaaacttg 60  
gatgtggcag aaagaaagt atttcccgca cagatgcgtc gtaaggaaga gaagtaataa 120  
catgatcttt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180  
tactccatg gacataaaa tgacttttt caaagttaag aacaaggtta gtctcagcat 240  
cyytcaagaa ctctacagag gttatccaaa catgcacaa aggaagaacc ataacaatg 300  
taatactcca taacacctt catacaactc tataataaat cagaaaagat actcaccatg 360  
ctcctctgga aggtgcccag agcgttgcac 390

<210> 17165  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17165

agcttcttat cctaggctca tcttgggtgt gaagctcctt ctcccatggc ttactcccta 60  
gtggatggcg tctcctctca ctctctctcc tttgtcttcc gctgcctctc catggtgtaa 120  
aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180  
gcaagcttcc atcactgagg acatggaaag gatgatgttc gtcacccttt ggggaatggt 240  
ctgctacaag gtgatgtcct tttggcttaa gaacgctggg gcaacctacc aacaggetat 300  
ggtagcatta ttcatgata tgatgcacac aagaaatgaa gtctacgttg atgacatgat 360  
taccagttct aaaccgagg agaaacatct catcaactt 399

<210> 17166  
<211> 400  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 17166

tataactgat gagaataact taattgataa tatatacgtt tattttgtag ataagatctg 60  
 gtttgatta tcaataata tatgtttaga acagtaatag attttaagtg tgattaaatc 120  
 ttaatttta aatgtaagat tgggtttata tgggtttata tgggtttata tgggtttata 180  
 tgggtttata tgggtttata tgggtttata tgggtttata tgggtttata tgggtttata 240  
 tgggtttata tgggtttata tgggtttata tgggtttata tgggtttata tgggtttata 300  
 tagagatntc tttatcttcc ctactcttat gaaatagatc ctttatataa tatgagacac 360  
 cttaagtacat tatcatattt ttctctcata ttattccag 400

<210> 17167  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 17167  
 catgcaacaa ttgttagccg tggctatacg agacatcttg ccaaacaaag tcaggttcac 60  
 cataactcgc atgtgctttt tcttcacatgc tatatgtagc aaagtgattg atccagtaat 120  
 gtttgatgag ttgaaaaatg aggcgcgaat tatactgtgc cagttggaga tgtattttcc 180  
 cccgtcttcc ttgacatca tgattcactt gattgtgcac ctggtcagag aaatcaaatg 240  
 ttgttgtctt gtttatctac ggtggatgta cccggttgag cgatacatga agatcttaaa 300  
 agggatatac aagaatctat atcgtccgga agcatctatt gttgagaggt acatt 355

<210> 17168  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17168

ctcgagaacc aagccaatca gaatgcatac ggaatatag atggttatat atgtaacaat 60  
 ggtgataatg acggaccgag gcataacccg gttgagggag taaagctcaa tgttctctcc 120  
 tcaaaaggta gaagtgtacc agatgcctac ctggacggg aaagaagac tgaacacata 180  
 ttgctctgaa atgaactaac tgatccgcaa aaagtcaagg tagcagcagt tgaattctcc 240

gactatgccc ttgttttggtg gcataaatac tagagagaaa tgttgagaga ggaacgggga 300  
gaggttgata catggactga gatgaaaagg gtgatgagaa aaaggratgt gccactanc 360  
tataacagaa ccattgagaa gaaactccaa gggctgtccc aagggaattt aaccatggaa 420  
gaataatata aggttttga aatggtttta gtaaggggta atat 484

<210> 17169  
<211> 171  
<212> DNA  
<213> Glycine max

<400> 17169

agcttagtaa agttaagcac taacaatctc ccccttggg aaattttgtc taaaacatac 60  
ttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120  
cagagtaata aagcacagcg gaaattctgc atgttgcaag tegtttccag gatgtcaaga 180  
catctacat gacatcagct ttctgctctc gctccccctg tctccatgtc tactgcagca 240  
tcttctaaca gctactagtc ttttccagga tgtcaagaca tctcatgtga catcagctgc 300  
tccccctgtc tccatgtctc tactgttgca tcttttatca gctactagta gcttacacca 360  
gtcatcatca gcagcagcag tctccccctc aaatcatata catacaactc c 411

<210> 17170  
<211> 489  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17170

tactcagctt cctcaagatc ctcttatctc cctgttgaaa tctcatnigt ccattagtgt 60  
ngggttggtaa ggtgttgaaa ttctgtgcac gaccccatat ttcttgagca aggcatacat 120  
ggatctatta caaaaatggg tgccttgatc actaaagatg gctctagaga ctccaaaact 180  
gcaaaacata ttgatctaa caaaaatgac aacaacetta gcctcgttag ttctggttgc 240  
ttaacttcc accacttgc aaacataatg aacaacaagg agaataaaa caaaacccaaa 300  
agagacaggt aaaggcccca taaagtctat acccaaacat caaacacctc acagaacaac 360  
atgggttggt gaggcatttg ttctctcat gaaagtgaag cgcctgtctc ctgacaagtc 420  
tcacaagtgc tacacattct ccacgcctcc ttgaagatgg tgggccaata gaaaccacag 480

tcaagcact

489

<210> 17171  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 17171  
17171

atcagctcg gaccgggat cctcttagtc acctgcagct gcagcctttt tttcttttta 60  
tctcagaggg actgatggtc actatgaatg aaaaatctct tgagataaag gtagtgttgc 120  
catgtattca aagcccgtaa taatgcatac aactccttat cataagttga atagttaatg 180  
gtaggaccac ttaactnttc actaaaataa gcaattggat ggccctttttg catcaacaca 240  
ggccgaatcc caacatttga agcatcacac tcaatttcaa aagatttttg aatgtttggc 300  
aacgcaagta tggnggcatt agctagctct tgetaagatc attgaaagct cttcttgttt 360  
ctctcgccat atgaaccaac atttttttga cacttcatta gaggtgctgc aatgtgct 418

<210> 17172  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 17172

tgatatttgc gccatagtag gccagatatt gattatggta tgggttttgg aagcagatat 60  
atgaatgac taaggacttc tcatatgget gcagtaaaga gaattttgag atatgtgaaa 120  
ggcacacttg attatggctt cttattctcc aaagcaaata ataataagg aataaggtta 180  
attggttttt ctaatgcaga ctatagtggg gatgtagagg acagcaaaag caccactaga 240  
tatgtcttca aattacttgg atcaacaata tgettgagtt ctaagaagca agaagatgtt 300  
agacttcaa ctgtgagtt agagtacatg gctattgtct cagcagcttg tcaatcagcc 360  
ttgttggagt cctgttga gaattgaata ttcagcttga ttcagtttgt caactaata 420  
tggacaacaa gtctgtata tctc 444

<210> 17173  
<211> 411  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17173

ttctgtatc atataaagtg gatccgagga actctcaagg acttgggtcaa gatgtctata 60  
cttctctat tctctctat tctctctat tctctctat tctctctat tctctctat 120  
ctctctctat tctctctat tctctctat tctctctat tctctctat tctctctat 180  
atgtjaagag ctgcttgatt atcacaatc aactttattt gctgaacatc acanaatttt 240  
aattattgaa gttggttaat ccacaacaat tcacaagtaa caagagccat agctctatat 300  
ctctctctat gacttgatca agcaaaaaaa ctctgtttct tctctctctc agagacaata 360  
ctctctctaa aggatacacc atctccagtg gtggatcgcc tctctatggg a 411

<210> 17174

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17174

ntgaaatggg ctcacatgta ggggtgagtt gcgagataaa tctctcgata taattcaacc 60  
tgcccaagaa acctcgaacc tctctctctc tctctggttc cggcatttca ataattggct 120  
tcattttctc gggatctatc gctatccctt tctgacttac gataaatccc agcaacttcc 180  
ccgaactttc ccgaaggta cacttggttg ggtttagctt cagttggtat ttccgcaacc 240  
ttctgaacag cttacgcaga ttgaacaggt gttcgtcttc agtctgagat ttggcaatca 300  
tctcatctac gttagacctt atttctttat gcatcatgtc atggaacaac gccaccatgg 360  
cacgttgata ggttgcccca gcatttttca gcccgatgc catcacttta tctcagaacg 420  
tccccatag ggtgaacgaaa gtggtctttt ctacatctt 459

<210> 17175

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17175

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aatatgcata tgcacctggt gcaagagtct ggggtctgtg ttattctgta gatcaccata 120  
 cagatttcat ccttctttgc agcaatatgg agtcaatgag caacctgaag cttatgctgc 180  
 aaacatttat aatagacctc ctcaacagca aaaccaacaa tggcaaaata attatgagct 240  
 ctcaacaaat aatataatc caactctgag cctctctcga atctgcaat caaca ctct  
 ctcaacaaat caactctgag cctctctcga cctctctcga atctgcaat caaca ctct  
 tcttctctct caaatcacgc agtagtcaca acanagacaa caagcaactg 410

<210> 17176  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 17176  
 tctctgtgac atgaggccat taagtgcctc tgcacaaatg ttataaagaa gaggtgatag 60  
 agggctctct tgccttagtc cttctctgag taggaactca gctgagggac taccattcac 120  
 caaaaatgaa acagatgctg attttagaca cccctcaatc cattgaatc atttgcctga 180  
 aaagcccatc ctaccatca tataagttag aaactcccaa gacacaaaat catatgcctt 240  
 ttcataatca acctgaaga caatgcaagg cttcttgcat cttcttgcat cttcaactac 300  
 ctcatctgta gtcaccacgc tgtgtagcat atgtctctct totataaatg ctgattgcat 360  
 ctcatgaata ataaaaggca tgacctctct caatctat 398

<210> 17177  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17177

agctcttat cctaggctca tcttggtggt gaagcttctt cttccaagga ttattcctta 60  
 ctgcaaggcg cactctctct cctctctctt ttgtctctct gctgcactct catgctgcaa 120  
 aatcaccatt aaaggacctc atgaagctc aaagatccag cctccataga agccccaaaa 180  
 gcaagcttcc taaggctgct cctctcagtt ttgaacttga cgtatctgct gctatctag 240  
 acttcgactt ctgggtgcat cagtctgtgg aacaaaagca ccatagccca ttgataggtt 300

gcggcgagctg tcttgagccc aaaggacatc accttatagc agaacccttc ccacaggggtg 360  
 aagacacatg gctctttcca tctctctggg tgcaccttt atctg 405

<210> 17178  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
 <215> 17178

ttttaaccca tgggaagctcc taatatctcc cacactntnn tgggtgggtct cattcttgga 60  
 tggcttgat tctctcaggg tccacttgga ccccatctct acaactaca aaactaaga 120  
 aaattatatt atctacacaa aaggtacact tctctatatt tgcataagagg gtgtttttcc 180  
 taaggactga aagaacttgc ctgagatgct ctaagtgate atctagggtc ctactgtaca 240  
 taaaatata atcaaaaata acaactacaa tctacctag gaaatccctt aagacatgat 300  
 gcataagcct cataaagggtg cttgggtgcat tagtgagccc aaaaggcatc actagccatt 360  
 catacaaac aaacttggtc ttgaaagcgg tntccactc atcacccttt ttcactctga 420  
 ttggtgata accactttta agaatcaatt ttgaaaagat attggcaaca tgcaactcat 480  
 ca 482

<210> 17179  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
 <215> 17179

agcctttatt tcaataaata agtttaaata agttggccca taatcaatat aaagtaatgg 60  
 aaaaaaaca taatcaaaaca tctatttgc tttatcaagt ctatttcaag tctagtatta 120  
 aaattcaata tttttttta tataatgtta ccttgtaata atttttatat gcatttatta 180  
 tcaaaattaa aattcatnt aaatgtattg aaatagagta attntaatta aacatataca 240  
 attntaatt attttaaaac aatattttta atgattntaa agatattaat tntcattatg 300  
 taaataatatt aaagattaat ctcatcgtat aataaataaa acacttcat ttagtataat 360  
 taaaattata aattattatc attatttta tcaaccattaa aattataaaa caact 415

<210> 17180  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17180

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g tttttttt tttttttttt ctttttagtt aatacacttt tttttttttt tttttttttt 120
ttttaaacct ctatagcaac ttttttataa actctgacct agattccctt ttttgatgta 180
taaaacaaagt gtccagtggg aggggaataa ggtctaaaga ttttagggaa ttgaacccat 240
agacaacctc aaaaggggat tttttttttt ttttatgagc tttttttttt tttttttttt 300
ctacatgagg aagatactca ttttaagact tatggttgcc ttttagaaga gtttttgana 360
gggtagataa agacctatct actacctcta tttgcccata agttttgtga ttgacaagtag 420
t
t

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<210> 17181  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17181

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taaatatttc atatatcata atttttatat tttttatttt ttaaaaaatga ccataatatt 120
tttaagttaa tttaaactagt tttctaggtt ttttaaccata atatatgtat ttttcaaaac 180
ttccatttca aagaaaataa tttttattat ttttaagttca aaactcaaag aggaaaaaat 240
gcatgcaaac aaattcaaat aataagtatt ggctaaaata tttttattat gaaattaaat 300
tttttaagga taaataattt catnttttgt aatatttgat attttgattt ttatttgatc 360
cttanaagta acattgtaac aataaaaataa tttttttcan agtttatgaa aaataaatat 420
a
a

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<210> 17182  
 <211> 387  
 <212> DNA

<213> Glycine max

<400> 17182

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gttgggcat gtttcagaa tcttcaaaa cagaatcttc aatcagaa tgcacaaaat 120  
tataatgctc aagattagga tgttcaaaa caccaataac ayaatgcaca 180  
tataatgctc tttcagaaa tcttcaaaa cagaatcttc aatcagaa tgcacaaaat 240  
tgaagacaga tcttgcacag gatgtcagga catcgcgctt cagaacatgc agattgtata 300  
tgaagtatg aacagattat acaagtaaat aacacaagag aattgtaacc cagttcgggtg 360  
caagtcacc tacatctggg ggcacc 387

<210> 17183

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17183

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gaggacatgg catatcaact tgctacttca agaaaaatta tagtaacatt aaaatgatat 120  
gggtcccaaa aggatcttca gtttatacta acatgcaagg acccaataaa atttgggtac 180  
ctaagtcaaa aacttgatta tgcaggtatc ttgagaaaag aagtgggtaca tagatagcgg 240  
atgtcaaaaa tatatgactg gagatgcac annatttaca cacatatctc caaagaaaag 300  
cgggcattga acatatgggtg acaacaacaa aggtagaatt ctgggagtgg gtaaaatagg 360  
tacannatct tcanactcca ttgaanatgt tctacnttgt gaaggcetta agcacagcct 420  
gcttagcggt agtcaactat gtgacanagg ctatctagta tcat 464

<210> 17184

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17184

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catttgcgtgc ccaagtttca tggctcttgca ggtgaagatc ctcataagca tottaaggag 120  
 ttcacatcgc ttgtttccac catgaagccc tetgatgtcc tagaagatca tacctttcta 180  
 aaggttttcc ctcattctct ggagggagtg gcaaaagatt ggcataacta ccttgctccc 240  
 agatgatttt tcaagtggga tcaacttaag aggggtgtct tggagaaatt ctttctgaa  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
 ttgtatgagt actgttggag attcaagaaa ttgtgtgaaa cctgtcttca cctttaa 480

<210> 17135  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 17135

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 aaaaacccaaa gaatgatttc gagattaaat caagatcaaa ttcaagaatc aagagaagtt 120  
 tgatttcaag attcaagaaa agatgaattc aagttccaag agaagaaatc aagaagactt 180  
 cacaatggga agtattgaaa agatttttta aaaaacaaac atagcacaaat tttgtttttc 240  
 aaaagagttt tcacaaaatt ttctatgta ccagagtttt tactctctag taatcgatta 300  
 ccagtttctt gtaatcgatt actagtggca aagtttgatt tcaaaagctt ttaactgaat 360  
 atacaacggt ccaattgatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcaat 420  
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<210> 17186  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 17186

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 cactcttcca caaatagctt ttgttaactg attacaagga ttgtgtaact gattaccagt 180  
 gacaagtttt gaacaaaaat caaaagatgt aactcttcca atgatttcca ggtttttcta 240



<311> 458  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 17189

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 aaacacatag aaataaggca tcattttctt agagatcatg tgttaaaagg tggctgtctgc 240  
 attgagttca ttgatagtga gcatcaacta gaagaaattt tcaactaaatc ttttctaga 300  
 gatagttttt ttattagaaa tgaactangc atgttagatg catctagcat aaaatgacat 360  
 tctgtttgca tagtgtgtga tgcacattgc tactcatatc atttgttttg tttagcttgt 420  
 gtctcagttt attgattcat atgcataatc attagtag 458

<310> 17190  
 <311> 387  
 <312> DNA  
 <313> Glycine max

<400> 17190

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 ctcaagaacc tcattttttct cattatagga cgtatagcaa tgggtggaaac taatgttacg 120  
 tagaacggaa agcgatctcc catgttttgc cctaataaag ggttgcacaa aggtgatttg 180  
 ctattacott acctctttgt tttaggtatg aacaaaactc cccacattat cttgaaagca 240  
 gtggaagott ggaaaccttt ttgtatggga agaaagggcc ccttcatttc gcaattcatg 300  
 ttgtgggatg acttattatt gtgtggtcag gcttctacta agcatatgaa atgtactttg 360  
 gacattatgc atttgttttg cgagatg 387

<310> 17191  
 <311> 443  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 17191

acactataat actcagcttg aactattggt gaggtagact agganaagag aggttggttg 60  
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 tgttcttaat ttgatgaccc ttctctatcc attgccctta agtattttctt aacataagaa 180  
 ttttattctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 240  
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<210> 17192  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 17192  
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 attcttagcc tcaagcagggg tcatatcacc aagagctcca ccaactagcag cattaatcat 180  
 actctctccc atgttgctaa gtccctcata gaaatattga ggaaggagtt gctcagaaat 240  
 ctggcgggtga gggcagcttg cacacaattt cttgaatctt tcccagtact catacaaget 300  
 ctctccacta agttgcctaa tgcctgaaat gtctttttctg atggcagtggt tcttagatgc 360  
 agggaagaat ttctccaaga acactctt 388

<210> 17193  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17193

tgcagaatgc atggtttggc acncaatac gtggttctgt tgggtctcaa gtggttagaa 60  
 autctctgtt ttgcgaatg caattttaa' ggcctttccc cgaataatct tctctctctt 120  
 gaggctcttg atcatctga tctctctcag cgggttgggg tcaacaactt tcttgccttt 180  
 ttcaaatatc tcttctcttc cctctctata agcttgaatg gtttacttc tctgactcgc 240

tggtaataaa gccaaattgg aaaatatott gggactsaact atetcaagtt tctcagtaat 300  
 ttctttgaat gctggaacaa ggccacgctt tatgaagcac ccttctataa gccgcacgtt 360  
 atttaactcg gggagaactat gagcatcttt taaactccaga tcttagcaaa atgggtgagtc 420

<210> 17194  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17194

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 ttggaacaaac aaacttgaga gtgccatgct agatctagga gcacacagtta gtgtcatgcc 180  
 tctgtccatt ttaattcttt tatcttttgg atctttgcaa tctacagatg tggtgattca 240  
 tttagcaaat agaagtgttg cttaccccggt angtttcata gaggggtgtgt tggttcgggt 300  
 tggtaaaactt atttttctctg ttaattttta tgttcttgat at 342

<210> 17195  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17195

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 gaetgttttt cteccatggt tcagttgtgt gtaacttgta tttctctcac agatggggca 120  
 tgcacgatga ccttaacac tgaacgct gagatccca tatgetyggga agtcattaat 180  
 ggtacaaaaa agcattgcac gcatttcata cgtctctctg cgaacgcac canatactac 240  
 aacccctctg tcccacaact ttctcagatc ttaacccaac ggacttagat aaacatcaat 300  
 gtcatttctt ggcctatcttg ggcccgatat cactataaac aacatcatgt attttcgctt 360  
 catg 364

<210> 17196  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17196

atattatgctg aaaaacaaa tctaatggct gctgaagag aagacaggat gggaaact 120  
 ataaacaaa acccatagta aaggtaacga cgcaatgagg agaaaaatto ttgtgcagaa 180  
 aaaaacgag agctaattca acaattatct aataataaat taagttatca aataactaa 240  
 taatgaatta atgggcaaat tcatatatct cattttcttg tatctcaatt ttatttattt 300  
 attgcacaat catatgtatt actaaatccc ttgtttacaa ttactggta ttagttaatt 360  
 nttaataca ataaacatct ttctgatctt ttaatatct tttaaaaatt attctactta 420  
 tataatnttt ataataatta aatcttatat a 451

<210> 17197  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17197

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 ggaacgatgtt cataagacgg cttctctcac gcaccaggga cactaagaat tcagagtgat 120  
 gccgttcggc ctctgcaacg cgcctctcac gttccaggcg gccatgaacg atacctcaa 180  
 gcccttcttg agaaaatacg tggccatttt ctctgatgat attttgggtg ttagctccga 240  
 ttgtgacaag cacttcacac accttgaatc cgtttctagat acctctct 288

<210> 17198  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17198

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gtctacaagt acatgccttg nggtgctctt agtcaatatt tgttaaattg gaaagctgaa 120  
 gggttacaac ctctggattg gagtggaaga caaggctaag aattgccttg gatgtracta 180  
 aggtgtcaa atattctatt gcatgagcaa ataaaatttt atccatagca atataaaatc 240  
 ctacacatt tctctggag aagatataca tgcacaaga tcaaaccttg gattgtttaa  
 tctctggtt gttcttctt attctctctt ctctctctt ctctctctt ctctctctt  
 tggcaacta agtatgtat gaggacaca tggcaacaaa ggtggatgta tttagttca 420  
 atgcaatcct tatgtatgag 440

<210> 17199  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17199

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 ccttagtggg tgggtgctcc cctctctctt tctcttttgc cttctgtctg atctccatgg 120  
 tgaaaaatca ccattgaagg acctcattgg agtccataga tccagcctcc atagaatctt 180  
 cacaagcaag ctcccatcag ctgtcttact ggttttagcct caccctctaa atntatccga 240  
 tgcatacatg tggatgggct aataccacca atgtccacca nggtccaacc tatagccttc 300  
 ttatgtctct tgagaactga taacaacttc tctcttggct catcaactag ggaggcagat 360  
 ataaltactg ggaaaactttt gttatcctcc aagcaagcat 400

<210> 17200  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17200

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 ggtaaaacta tgaacttggg ttgttaacc gttggatttt catgaaattt ggatagtgtg 120  
 ctccaaaacc aattgggac accgttggga ttgtcgagat aataattctg gauggagaaa 180  
 aacgaatctc atgaaganaa tacaagtggg ggtttcaatc tcttctcctt ctctctgacg 240

tttgggaatt ctattggagc agtaggagga ataatgaag gaattctang gaaccgctag 300  
 agatgctgct atccctggct gaagacacgt gagtccgctc agaggtaagg gatgagttat 360  
 tcacaattgg gaattagtga gaacatgtgt agggatcctt agagatatca attggaatga 420  
 480

<210> 17201  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 17201

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 ttgagaact cgaatgatt gggaggcggc ttccactttt ttcttggtgg ctggcaagca 120  
 aacgggggtat gctcattcga ttccggagta ccattctatg atctccatcc ttggcaaaat 180  
 gaggaagttt gatactgctt ggaacttaat tgaggaaatg agaagaggta taactgggtc 240  
 atctcttgtc actcccccaca cactgttgat tatgatcagg agatactgtg ctgtacatga 300  
 tctngcaagg gctatcaata ctatctatgc ttataaacag tataactctc aagtgggcta 360  
 gatgaattca taaccttctt tc 382

<210> 17202  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 17202

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 cagatattat aagaaggggg gttgaattaa gatattccaa actacttccc caattataaa 120  
 tcctatctac tttttattca agttataaat gcccttaata atgaacttct taaatattga 180  
 ttcaataaaa acactctgaa tatgactata tagcaataat atacaaagga gattaagaga 240  
 agagaaagtg ccaactcaga ttataactgg ttccggccaca ccttctgtgc taactccatt 300  
 ccccatgcaa cccgcttgag agttccacta tcttgtaaat gccctctaca acctctaaac 360  
 acac 364







actoggaatt gaacaacgga agctctcgag acatctagat ggtcataact tctcacattg 360  
 atgtgcgatt cacyottata atatattgat atgctcgaaa ttaaacatcg gaagctctcg 420  
 agatattcaa atggtcataa cttt 444

<211> 140  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17209

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 cccgtaatat aacgagacgc tcgaaattga atattgaagc tctgaactag ttcaaacgac 120  
 aataactttt tactcggatg tctgattgag tcccgtaata tatcgagacg ctcgaaattg 180  
 aatgttgaa cctctgagtaa attcaaacga caataacttt tttctcagat gcttgattga 240  
 gtcccgtaat atatcgagac gctcgaaatt gaatgttgaa gctctgatcc aattcgaacg 300  
 acaatacctt tntactcgga tgtctgattg aagtcocgta tatatcgag 349

<210> 17209  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17209

tcaacattca atttcgagcg tctcgatnat gacgggactt tctcagacat ccgagtataa 60  
 agttattgtc gtttgaattg gctcagagct tcaacattca atttcgaggg tctcgatata 120  
 ttgogggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt ggctcggagc 180  
 ttcaacattc aatttcgagc gtctcgatat atgacgggac tcaatcagac atccgagtaa 240  
 aaagttattg tcttttgaat tggctcagag cttcaacatt caatttcgag ggtctcgata 300  
 tattacggga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 360  
 ggttcaacat tcaatttcga gctctcgat atattaaggg actcaatcag acatccgaut 420  
 aaaacgtta 449

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#223>      unsure at all n locations
#224>      17418

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cttttcttg aaattgttta tgggttttaa ccaataatga atcagatatt ttacccatat  
tctaattggtt ctgttttttaa ggataaagaa cgtcaagcaa aggoggacta tgtgaagaag 180  
cttcattgaga gagtcaaaga tcaaatcgag aggaaaaata aaagcttatgc taaacaagcc 240  
aacaaaggga gaaagaaggt tgtcttcgaa ccoggagatt gggtttgggt gcacattgaga 300  
aaagaaaaggt ttccggaaca aaggaaatca aagottccaac caaggggaga tggaccatnt 360  
caagtqettc aaagaatcaa tgacaatgct tacaaagttg agctgtccgg tgagtataat 420

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>423>      unsure at all n locations
>400>      17211
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ttctaacata	atatatcttt	aaagaaaaaac	aaaatttttt	aagtttgatt	aaatttttgaa	180
cttagaatta	attttataat	cgatctaaaa	gattaaaaatt	ataaaaaatct	tacaaaatttt	240
caaaaaagaa	aaataaaaaa	tctttattat	taatatgggt	aaaaaattat	atattaaata	300
aaanattgaa	ttcaccttcg	ttaataaatc	ttatatgaag	ttcaatcaat	aataaagtaa	360
tcacaacaaa	tgattattta	gttttttaag	gatttttatc	gacacat		408

<323> unsure at all n locations  
<433> 17212

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 caattcaatt aaatttattt cccaacacac atatcaaata ttcacttagt gcattgtgaaa 180  
 ttaaaatggt tgccttaata caaaaactag tttggttggc cttaaatata gggcttataa 240  
 tttgttgggt tttgttgggt tttgttgggt tttgttgggt tttgttgggt tttgttgggt 300  
 aatgtgacat cctatcttaa tatgtatgaa gataattgga c 361

<J10> 17213  
 <J11> 451  
 <J12> DNA  
 <J13> Glycine max

<400> 17213  
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 gtctgaatga gaactttata gaacaccctt tttgaatttt aagtatgaat ttttgtgaat 180  
 togagtaagc aagtaatgat attactgtgt aaaaaaagat aatgatatat attcctctgg 240  
 acttaaatat atataaaaaa actaactcaa tttaatgttg ataattctat gaaaaaagtt 300  
 aattcatttt ttaaagtacc atttatatta attgcatagg acaaaaaaaaa taaggttatt 360  
 gaaaataaaa ctctaattaa ataaagagta ttttggggat attataatta aataggagag 420  
 aattaattaa aatttactta tattttaatt c 451

<210> 17214  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 17214  
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 aaacaatagg gtgatgaaac gaataggggt tctcttcaat gcttgaagca tccaattttt 180  
 atttttattt ttaagtaga acatattatc atatcttgaa agcatcagct atgactcggc 240  
 taaaggctac cgcggctctt gagccagatg ggcgccccaa atgcttgcgc atgaactcac 300

oggetaacat gagctttccg agatcaacgt tggctttcac cccaagtcca ttcagcatgt 360  
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 gacaggaac tgaagaatca actgcaactga tcccacac 488

<210> 17215  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 17215  
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 ggcctttaat atttgaagag tatccttctg gaactttgac atgacacata cactaacaaa 180  
 aactcatctt ctcctttctg ggcacaaagtat gacaagctga aggcacagtat attttttacc 240  
 atcagacctt ggatataact gcaactcgtat atccatgcca actagatctt gacgagtatt 300  
 caaacacatc ttcactcttg cttgaatgtt aaggagcgtc ccaataacat tatcacatac 360  
 atttttctct acatgcataa catcaataca atgtctaaca tctagatcag accagtaggg 420  
 aagatcaaac aaaattgacc ttttc 445

<210> 17216  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 17216  
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 aacttgcact atattatctt ttttaattata gctcaaatc aaatgggtgt gattttgtat 120  
 ttgaagatac tcttcacaaa atatattaaa ttgcataat aaataatggg gttgacaaga 180  
 actagtaata caccocatga cccaccctt tatctactta tccatattg acacatatgc 240  
 ataattaata ttaagttata aacttataaa aaacaaattt ttatgttggg aaaaaaatgt 300  
 caatattaac aattatctat cactaaaaaa taattaaatt cgactaagaa aatttaataa 360  
 tttaaaataa atcaataaaa gacttataat ataaaaatatt ataaaaagta taacataatt 420  
 aattatattt taaataaatt tattatctt 448

<210> 17217  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<214> 17217

<215> 17217

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 ctgaggttg aaaaactggc gcataagta tactttgttg gctgtcgagc gcttctctga 240  
 catatctgat aagccttca ttaagcctgt agtagctctc tegtttacga tgttgaacgc 300  
 gaagtcttta gctaatgta atctgacac gctaaagact tgtcgatcca gcaagtcca 360  
 ttctctctgc tctatgtgt ctggcttaac cctgataag ggctgatacg acttctcttg 420  
 atatagataa tctctctct 440

<210> 17218  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17218

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 taagaatgga ggatttctct gagggctctc tcttaggcaa tcatggaaca caactccata 180  
 ctogaaagtg gaggaccac gaacaggcct aagcaataac attcatgttg ctccgaaaaa 240  
 ggatgagaat ggaggattgc gttgagggtc ctatcttatg caatcatgga acacagctcc 300  
 aaacttgaaa atggaggta catgaatgac aacgcaatc attcacgng ctccgaaaaa 360  
 gggtgagaat ggaggattgc cttgagggtc ctctcttang caatcatgga acacagctcc 420  
 aaactcgaaa gtggaggaca catgaac 447

<210> 17219  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17219

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gagccttagg gtagatttcg agcccatggg ctacgcatga gcccgcttat ctttgtaaat 300
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ttcctgtatt ttgtcatg 438

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<210> 17220  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 17220

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tccatgctat atgtagcaaa gtcattgac ctgtcaagtt tgatgagctg gaaaatgagg 180
ccgcaattat actgtgccag ttggagatgt attttccccc tcttttcttt gacattatga 240
ttcactctat ttgtcatctg gtcagagaaa tcaaatgttg tggctctggt cctacacata 300
attcaaatct attaatatgt aatgcataa ttggatgaaa gctttgaaca tggaaattat 360
ggcagttcat tctatattgt tgcaagtact cctactct 399

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<210> 17221  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 17221

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agctttctat aacagggctg aagaacataa tgcctctcat aattgatgaa agacagaccg 60
ctttctatgc ttgacgagag ctgtctacaa ggttaattat cgttaatgaa acagtggagc 120

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aagccataag gggtaaaaag acatgcttgg tgttcaaaagt agattttgaa agggctttaag 180  
 actctgtttt gttggaacttt ttaactatata tgcctggaag gtttaggggttc tacaataaat 240  
 ggaattcagtg gattgacggg tgcctcaaat ctgcctcggt ctgggtgttg gtaaatggaa 300  
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<210> 17222  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17222

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 gataaattaa tcttttcgca gaatgatata ccttaccact cccatgttga atcaaaaatag 120  
 taaagccttt ttcttgaagt tgtcctatgc tcaccagaaa ttgcctgagt aaatccactc 180  
 acttgcataa gaatgatacc ttttccaca acatccattc tgggtgttatt gccaaagtttt 240  
 acagttttggc taaagctttc atccagttct gagaaccact ccttgtttcc aatcatatga 300  
 ttgctgcaac cggagtcgaag gaaccacact tcttccattt tgtcttgcct cagggtcaaca 360  
 taagacatta ataaaaaato ttcca 385

<210> 17223  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17223

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 taaagtgcag atgtccaaat ctttgatgac atattctgac ttcattctct ttggaggata 180  
 gatctgtgga ggagtagctg gttctttgag gtgtccatag gtaacagttg tcttttgatc 240  
 tcttgccttt catagaaat tcaactctct catttgcac caagcattct gactttgtga 300  
 actttacatt caactcttca tccacaaact gactgatgtt gatcagtttt ggaagtcagtc 360

ctttcaccag cagtactttg ttcagactag gaagtcacac atgaactagc tntcccattc 420  
caatgacccc 440

<310> 17224  
<311> 441  
<312> DNA  
<313> Glycine max  
17224

agcttttatct caaattttctg gctaaacttat cttttattcc actaaggaca gagaaaggat 40  
ttaaattgctt aattaatgta gttttaaaag gatgttgatc tctccattgc gtagggcaga 100  
gcaagacaaac gcttaccaaa caaaaaccgc tcttaatttt taaaacatat aataaaatgt 180  
tcccttatta taataatcaa attgacttca attagcataa aaataatagc ctttagtggg 240  
acaatccata gtaacctagg aaactcagta caaatacaca ttaaaaatat aaaagcccaa 300  
ggaatataata tgccttcaat atttgttttc cacactcaaa ttgccatata acgggtgaat 360  
aagtgaattc aaaccaagat ctaaacaaaa agctatc 397

<310> 17225  
<311> 403  
<312> DNA  
<313> Glycine max  
  
<223> unsure at all n locations  
<400> 17225

agctttcttg aaacatatat gtttggtctt gttgctgaca gatacaacaa actaccaatt 60  
atacttctat aaacagaatc atttgctaaa tcaataccat cattttattga taacttttca 100  
ttcacaacaa ttggagtgaac aacaggcttg cattgctcca tgcgaaactt cttcaatata 180  
tccaaagcat atttcttttg tgaaatgaag atcccacatc tagactgaga aatctccatc 240  
craagaaaat acttcatttc acccaagtca gtcatttcaa attctttttc catgtccttc 300  
ttaaattggg ttaaggaatc agattcattc cctataacca acaaatcctc aacatadaag 360  
gaaadaatga gctgcatttc atttttneac tttttcagat ac 402

<210> 17226  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 17226

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atgaaggt caatctccac agagaaaag atctctca aatctcagt cggctttctt
ctctcaggt cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc
acaggtagaa agctctccac gaagaggtt ctctctgagt ccatagctt cagctctctg 140
cagactccta atagctttcc agttgtcaag gcctgggata aaatcaggac cagcagtgac 200
attgcataag ttccacttgt atccagttgc ctgcttggag gattcttgag actccttttc 260
attcttagac tctgtgctt gatttgacca agaccagtt tctgtagtac tttctctgtg 320
cagctcagac tgagccctag aaggatatac c 441

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<210> 17227  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17227

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catgagagag tcaagatca aattgagaga naaaataaat gctatgctat acaagccaac 60
aaaggagaaa agaaggttgt ctccgaaccc agagattggg ttgggtgca catgagaaaa 120
gaaaggtttc gaaacaaagg aaatcaaagc ttcaaccaag gggagatgga ccatttcaag 180
tgcctgaaaag aatcaatgac aatgcttaca aagttgagct gcccggtgag tataatgtta 240
gttcaacctt caatgtcttt gacttatctc tttttgatgc agatggagaa tccgatttga 300
ggacgaatca ttctcaagag ggagagaatg atgaggacat gaccaagagc aagggcaagy 360
atccacttgg aggacctatg acaaggttta gagcaaggaa agccaaggaa gctcttcaac 420
aagtgttgcc catattattt gaata 445

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<210> 17228  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 17228

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cgtgcgaagc ttctatagaa ggttcgttcc taattctctt acaattgcat cactctcaca 60

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tgagctgggtg aaaaagaatg tggcatttad ctgtggtgaa aaacaagagc aagcctttgc 120  
 tttgctcaaa gaaaagotta ctaaggcaac tgttctaget ctctctgact tttctaaaaa 130  
 ttttgagota gaatgtgatg cctctggagt gggagttgga gctgtattgt acaaggtggg 240  
 gctgtattgt acaaggtggg gctgtattgt acaaggtggg gctgtattgt acaaggtggg  
 gctgtattgt acaaggtggg gctgtattgt acaaggtggg gctgtattgt acaaggtggg  
 aaggaatttg taattcatag tgatcatcaa taattlaagt a 4 1

<210> 17229  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 17229  
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 gcaattatga cctttccagc aacagataca accttggatg gaggaatcac cctacctca 120  
 gatggtccag ccttcagcaa caacaacagc agcctgctcc ttctttccaa aatgctgctg 180  
 gcccaagcag accatacatt cctccaccaa tccaacaaca gcaacaaccc cagaaacagc 240  
 caacagttga ggcccttcca caaccttccc tgaagaact tgtgaggcaa atgactatgc 300  
 agaacatgca gtttcagcaa gagactagag cctccattca gagcttaacc aatcagatgg 360  
 gacaattagc tactcaattg aatcaacaac agtcccagaa ttctgactag ctggcctctc 420  
 aagct 425

<210> 17230  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17230

ntgaatgctc taattcaatgg agttgtcaag aatattttct ataacttatca acacatgcac 60  
 agtggccaag gatgcattgg agatcctgaa aaccactcat gaaggaaact ccaaagtcaa 120  
 gatgtccaga ttgcaactat ttgctacaaa attcgaaaat ctgaagatga aggaaggaada 180  
 gtgtattcat gaattccaca tgaacattct tgaatttgc aatgcttga ctgccttggg 240

agaaaggatg acagacgaaa agctgggtgag aaagatcctc agatctttgc ctaagagatt 300  
 tgacatgaaa gtcactgcaa tagaggaggc ccaagacatt cycaacatga gagtagatga 360  
 actcattggg tctcttcaaa cctttgagct aggaactctcg gataggactg agaagaagag 420  
 caaagaatcg jmj 480

<310> 17231  
 <311> 450  
 <312> DNA  
 <313> Glycine max

<400> 17231  
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 cagttttggc cactggtaat cgattacatc ctctggtaat cgattacgag agagtaaatt 180  
 tgttgaaaaa gactttttta cttaaatttc ttggcctaaac tttttgctac ttcaattgga 240  
 attcccttcc tatttaatat acccttttcta agactctaga gactgtcttg atcatccatc 300  
 ttgaatatat ttaattttct tgtcttgaat agagctttga gacgcattgt aaactttggc 360  
 atcatcaaaa cattcagctt gatcctttgt ctacagtttc gtgatagaat actatataaa 420  
 gttagtggac aaaaactca 480

<310> 17232  
 <311> 451  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 17232

taagctcttt caactgcaca aggtctctaa tatttgaaga ttatctttgt tgaaccttca 60  
 cccgacgaaa ataactgaaa aaacttatct tctctttttt ggacaaagta tggcaagcta 120  
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt atccccatat 180  
 cagctagatc ttgacgggta ttcaaaccat cctctgctct gccttgaatg ataaggagcg 240  
 ttcaatcac actgtcacat acatttttct cgacatgcct aacatcaata caatgtctaa 300  
 cactagatc agaccagtac gaaagatcaa agaaaatggg cctcttcttc catatgcaat 360  
 tcttaagttt atcttcttct tgggtcttct caaatacagt attcaggtgt tgaacctact 420

gatataacctg ctcactagtc aacgggtatgg g

451

<210> 17233

<211> 386

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 17233

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gtattcgttt aaaatgcatt aagataaatt agtaggagaa caatttggatt tgtttaataa 120  
actgattctt galcttgaaa atatcgatgt cactattgat gatgaggatc aagccttgtt 180  
attgttgtgc tctttgctta agagttactc tcatttcaaa gagactntat tgtttggaag 240  
agaactctgt tctcttgatg aagtgcgaagt tgccttgaat tcaaaggaat tgaatganag 300  
aaaggaaaag aagtcttcta taagtgttga agggctgaca gcaagagaca agccttcaa 360  
gaaagatagt anatttgata agaaga 386

<210> 17234

<211> 420

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 17234

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cccatcttta atggagtggt ttaccactag tggaaaaacc gcatgcaaat ctccatagag 120  
gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180  
gcgggaagtg caaccataga aaaacctaga gcagatttga ctgaggaaga aagaagatta 240  
gtacaatata atttaaaagg caaaaatatt attacatttg ccttaggaat agatgaatat 300  
ttcaggggtt taaattgtaa aagtgttaag gatatgtggg atacactana agtaacacat 360  
gaaggcacia cagatgttaa aagatctang ataaacaact taactctatg atatgaactt 420

<210> 17235

<211> 421

<212> DNA

<213> Glycine max

<400> 17235

taaattactt ctgtcagaaa agcettacaa attggaggag gatgacatgg gaaatttaga 60  
agagaatcag gaattctagaa taggaactata taacttgaat tatcttctag acaatattca 120  
ctgtctac cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt  
tattctaga ctgagctacc aagctctctt gctctctctt ctgagctctt cctctctctt 180  
tgcagctctt aagcctctt cacttaatgc tttaaataaa gatgaagctt ctagctatct 240  
tgaatcagat ggtttctcta ggttctctc aaggcattgt ttgcacgtat atggcaacaa 300  
agtaaatgag tgcctgcta gcttctctt gaagttggat gagaagcgag tatgcataca 360  
t 421

<210> 17236

<211> 397

<212> DNA

<213> Glycine max

<400> 17236

agcttataca ttcaatttcg agcgtctcga tatattacgg gactcaatta gacatccgag 60  
taaaaattta ttctctctt aattgctca caggtctaac attcaatttc gagcgtctcg 120  
atatattacg ggactcaatc agacatcga gtaaaaagtt aatgtctctt gaatttctc 180  
atagcttaaa cattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240  
agtaaaaagt tattgtctt tgaattggt cataggttga acattcaatt tcgagcgtct 300  
cgatatacta cgggactcaa tcagacatcc gagtaaaaag ttattgtctt tgaattgtc 360  
catagcttaa cattcaattt cgagcgtctc gatatat 397

<210> 17237

<211> 425

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 17237

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atcagagcgc tcaaaaattta atcttgaacc tctatccaa tcaaacgac aataacttct 120

taactgggatg tatgattgag tcccgtaata tatcgagacg gtcgaaattg aatgttcaac 180  
 ctatgagcca attcaaacga caataacatt taactcdaat gtctgat'ga gttccataat 240  
 atatcgagagc gtcgaaatt gaatgttcaa cctctgagcc aattcaaacg acaataaactt 300  
 attatccta tctcgatctt aatcgatca tatatcaga tctctctat tctctctga 360  
 tctctctat tctctctat tctctctat tctctctat tctctctat tctctctat 420  
 tctctctat tctctctat tctctctat tctctctat tctctctat tctctctat 480

<210> 17238  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 17238

tgcataagtt gagaagacca agaatttgat tcaatccaat tatatgcgat agggctcaaa 60  
 aatgcattag gantacaaa ggaactgacc aaggcaagtg cgtgtggtcg aagttcagca 120  
 cagagttttg gcacttcttt cctcactgca gaagcattct ctgttgacaa gtatccatat 180  
 cgaagaaagg cagaatcttc atccacacat atcacagcat acaacgatct caatagaccc 240  
 aagacattct acagaggaga taaataaaag caaagaaatc aataaatgga tctgcttcac 300  
 attttgaccc taaaggaga gtgctaacaa cactctttta catgagaaat tattaagtag 360  
 tctgaaacta ctatagtcct cactaactaa tatatttaca taaaacaaaa ttgagtgtta 420  
 ttaattcttt tcttgtaaa 439

<210> 17239  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17239

gccaattcag ctctgaccgg ggatccttaa gtcactgag tttgcaact tctgctctan 60  
 tgaagatgaa gaggtaaaag tgactcaaca ggttgagggtg tctctcacca ttggagata 120  
 taatgacaag ctgtgtgtgt atgtgtctcc aatggaaagg acccatcttc ttttaggaag 180  
 atcttgccag tatga'acca aggcactgca tcatgctctc acatacaaca tctcttcaa 240  
 gcaagctgac aagaagatg tctcacaacc gttatctctt caagaggttt gtagagatca 300



gataaaaatg agagaaaaga aaaagagtga gacacttgag aggaaaaaga gtgagacact 360  
 tgagaaggaa aagtggaggaa agactaagag tgatacactt gagagggaaa agagagatna 400  
 tcaaaagagt gaaaaa 436

<210> 17240  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 17240

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 agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctac 120  
 acataccttt ctaatagcta agctcacctc cttgagatga gaagctagaa ctttagctaca 180  
 caccctata atagctaagc tcaccccccatt gacaaaatac atgaaaatac aaaaaaaaaa 240  
 tccctactac aaagactact caaaatgctt cgaaaatacaa ggctaaaacc ctatactact 300  
 agaatggcca aaatacaagg cccaaaggaa ggaaaaatct attctaatat ttacaaagat 360  
 aagggggctc atacttagcc catgggctcg aaatctaccc taaggctcat gagaacctt 419

<210> 17241  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 17241

agcttggaa taagcttctt ttctctaaaa cttgtcattc ataaactgat ggacaaacag 60  
 aggtagtga taggtctcta tcaccccttt taagggtctt ttgaaaggc aaccataagt 120  
 cttgggatga gtattcttct catgtagaat ttgctacaa tagggggggt catagaacca 180  
 ctaagcaatc cctttttgag gttgtctatg ggttcaatcc tctaaccacc ttagacctaa 240  
 ttccctctcc acttaacact tcttttatat ataaagaagg ggaatctatg tcaaggtttg 300  
 taaagaagta gcatgagagg gtaggaacc aaataaagaa ccagacaaag gtgtatgcaa 360  
 ctaaggcaa tagaygaaga aatga 385

<210> 17242  
 <211> 377

<212> DNA  
 <213> Glycine max  
 <25> unsure at all n locations  
 <400> 17242  
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 ggaatctcag aatgaattt tcttctctctt tttcgaagaa tcttctctctt atctctctta 150  
 aagagaaaaat tcttttctcc tcttcaaaat tctttggcca aattacttgt gattcaataa 240  
 gaaatttttg agtgcacaaa ttgttcaatc tatctctctc aagagagatt tcttctcttc 300  
 tcttcttcca ttctgaanag ggattaagag accgaggggc tcttgggtgtg aaagaattct 360  
 aaacacaaaag tgatgtg 377

<212> 17243  
 <213> 414  
 <212> DNA  
 <213> Glycine max  
 <400> 17243  
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 atggggcctc ctctctctc ttctctttg tcttccgctt catctccatg gtgaaaaatc 120  
 accatcaaaag gacctcattg aagctcaaaag atccagcctc catagaagcc ccacaagcaa 180  
 gcttccatca caaatctcgc accagcatga ttggagtacc gaccttaagt gttaatttgt 240  
 gattaggtat ccttgatgtt ttcaatgagt ttagaaaattt aggtgtcagt aatccgaaag 300  
 taggattgag tagttcatct tatttatcaa tgttatcagt gctacaatac tcttttctgt 360  
 cattctgtat caatgataag acaataatct attttgtcaa caatatcttt tttt 414

<212> 17244  
 <213> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17244  
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 aagacttcat atcaattatg aaatgcatat tactacccaa tatcaatatg tcatccacat 120

aaaaacataa aatgatgcat ccactatcat caaattgttt cacatacaca catttatcac 180  
 tattattgat ttgaaaacaa tatgaaagaa caacttgatc aaacttttcg tgcatttgc 240  
 ttggagggtg ttccaaacca tataaagatt taacaagttt gcaaaatttc tttcttttac 300  
 tttcttttac tttcttttac tttcttttac tttcttttac tttcttttac tttcttttac 360  
 tttcttttac tttcttttac tttcttttac tttcttttac tttcttttac tttcttttac 420  
 attaaactc 480

<213> 17245  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 17245  
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 taacatcatt tcttgcactg aattgttggg agttggaagc catctttctc attagattcc 120  
 tagctcagc aggagtcata tcaccaagag ctccaccact ggcagcatca atcatactcc 180  
 tctccatggt gctaagtccc tcatagaaat attgcagaag gagttgctca gaaatctggt 240  
 ggtgaggaca gcttgccacac aatttcttga atctttccca gtactcatac aagetctttc 300  
 cactaagttg cctgatgctt gaaatgtctt ttctgatggc agtggctcta gatgcagggc 360  
 agaatttctc caagaacacc cttttaaggt catcccaact ggtaatggat ctgggagcaa 420  
 ggtagtacaa 480

<210> 17246  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 17246  
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 ccattgagagg ctggatcaaa tggagaatag agatcatact gaagaacaaa ggacgagaag 120  
 agdaaatgat ggtgttcta gacaaaaccg aattgatggt attaaactca acattctctc 180  
 attaaagga aagaatgac cggaggccta ctggagtggt gagatgaaaa tagagcatgt 240  
 ttctctatgc cacagctatg acgagaccca gaacgtgaag ctggccgcca ggaagtcttc 300

cgactatgct cttgtgtggc ggaacaagct acaaatagag agagcaagaa tgaagagcct 360  
 tggttgatca tggg 374

<210> 17247  
 <211> 425

<212> DNA  
 <213> Glycine max

<400> 17247

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 tataaagaga tgcctgaagt taaatgttta agctctgagc caattcaaac gacaataact 120  
 ttttaactcg atgtctgatt gagtctgttc atatatacag acactcgaaa ttgaatgttg 180  
 aagctctgag ccaattcaaa cgacaataac tttttaactcg gatgtgtgat tgagtcctgt 240  
 catatataca gacgtcctaa attgaatgtt gaagctctga gcccaattcaa acgacaataa 300  
 ctttttaact ggatgtctga ttgagtcttg taatatatcg agacgtctga aattgaatgt 360  
 tgaacctctg a 371

<210> 17248  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 17248

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 aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120  
 atgacgggac tcaatcagac atccgagtag aaagttattg tegtttgaat tagctcagag 180  
 cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga cctccgagta 240  
 caaagttatt gtcttttgaa ttgtctcaga ggttcaaat tcaatttcga ggcgtctcgtt 300  
 atatcagggg actcaatcag acatccgagt ataaagttat tgtcgtttga attgtctcag 360  
 accitcaaca ttcaattttg agcgtctcga tatatgacgg gactcaatct tacatccgag 420  
 taaaa 485

<210> 17249  
 <211> 425

<212> DNA  
 <213> Glycine max  
 <400> unsure at all n locations  
 17349  
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 tctg  
 tctgctcttt tcttgaattt atcaattctt ttaattgagaa tcttctttaa tcttctatctca  
 autgaagtaa cttagaatatg aatataaagg aataataaat aaaggagatt aaggggaagag 240  
 aaaatgcaaa cttagtcttta tactggcttc gccacacct tgtgctctag tctagtcctc 300  
 aagcaacccg cttagagagtt acactaactn gtaaattcct tttacaagtt ctaaacacac 360  
 aaggacaacc ctctctttgt gtttagagat cttttacaac aagagactca cagtctctta 420  
 atccctt 427

<210> 17250  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <400> 17250  
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 gagaattgtg gttttctgtg atacgccggc aggcgcacaa tgaaatctaa cgagaggtcc 180  
 tcccaaggtc gatggggcac cggtaagggg cataatagtc ctgcgcacgc ttgtgtctgg 240  
 tacttagtga cctgacaatc catgcaattt gccacaaatt gcttgacatc ttctctgaga 300  
 ccgggtccaag tgaagttctc tgaaattcga gctaattgtc ttgtgattcc ggcgtgaccc 360  
 cctgttggag tctgttggtt ttctgaagt aatg 394

<210> 17251  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <400> 17251  
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atatatacgag acgctcaaaa ttgaacagtg gaagctattg agcaattcaa atggtcataa 120  
 tggttcactc ggatgtccga ttcaggcaca taatatatcg agacgcccgga aattgaacaa 180  
 tggaaagcttt tgagaaattc aaatgggtcat ttctttacac tgggaggtcc gatcagggcg 240  
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 ttcagatata gaaagctctc aaatggaaga aggaagctc ttgagaaat caaatttcca  
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<J10> 17252  
 <J11> 431  
 <J12> DNA  
 <J13> Glycine max

<400> 17252  
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 ttttgatgca gatggaggag ccttggattt gaggacaaat ccttttcaag aaggagggag 180  
 tgatgaggac atttgataaa atttggtgag agttctctctc tgggttcctt gttgaaccaa 240  
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 aagtggcgtc taccggact tatcttcctt caccggaagt ggcgctctacc cagacttctc 360  
 ttccttcaact ggaagtggcg tctacctga cttatcttcc ttcactggaa gtggcgctcat 420  
 ccaaattctt g 431

<210> 17253  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17253

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 aaagcaactc tgaatgaaa cttagagaaa tagaaathtc aagcattacc atggaaggaa 180  
 ggcgatcatg atgtcaccat cccagttgc acaaatgca ccaacttcat caatggcata 240  
 tgcagaggat ccagcaatgg gaccatctcc tactctgtaa tcaatgaaaa agattcaag 300

aaaacctaat tataaaatgc atcaatagaa catacaaaagg atgattgata gatgctgcat 360  
 taacaatgtg tgggtgtatat ctgagcatat gtacttggga attgataagg caatttgtga 420  
 aaggctaaat 480

<211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17254

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 tacacagata tccggttgag tcccgtaaga tatcgagacg ctcaaaattt agatccgaag 180  
 ctctgagaaa attgaattga caataacttt atacacggat gtcgggatga gtctgtaat 240  
 atatcgagac gctgcaaatt gaaaacggaa gctcgtagga aattcaaacg acaataactc 300  
 tttactcgga tgtgcgattg aatcgggtaa tatatcgaga cgatctaat tgagactaga 360  
 agctctgagc acatggagat gacaataact ttatacacgg atg 420

<210> 17255  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 17255

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 tattccacca ggactcaatt atcgaataat aattaaataa tatctgcaaa ataagtttaa 180  
 aattataaaa ataattatta apaaaaagca tctaaagtta atacaaataa aataattata 240  
 attgaccaat gccagtgttc ttgtttttct tgttttagcaa gaaaaaatga taggatgggt 300  
 tattttttcag gaagcatagt ccaacttacg ttaagccagt ccttgatata tcaaatccca 360  
 aatgtatgca agaacggta gactcgggtt tgtgaagctc cctttgtaca gcaacattca 420  
 cc 480

<210> 17256  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 17256

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 aagcatctaa caactgcttg gtttgaggtc tcagcccatc tataaacatg ttcaattgaa 180  
 ttggttcaaa gaatccatga gtgggagttt ttcttaacaa accccgaaat ctctccaatg 240  
 ctctactcaa tgactcatca gggaactggt ggaatgatga aataacaaca ttccctttctg 300  
 cagtctttga ctgaggaag tattttctca taaattttct aacaacttcc tcccatgtct 360  
 taagactggt gcctttgaat gaat 384

<210> 17257  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 17257

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 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180  
 acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240  
 cctagagata gatgggtctga agaggataga aaacgagtac aatacaactt ataaqccaaa 300  
 aacataataa catctgcctt aagaatggat gagtatttca gggcttcaaa ttgtaagagt 360  
 gctaaggaaa tgtgggacac tcttcgatt 389

<210> 17258  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all 8 locations  
 <400> 17258

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actttattac tattatatta ttgtagaata ataaaaatac taataaccca ttaatggggt 120
ttattttctt ttatcccttt attataaaca ctgtcattca aagttaataa tagaaaacat 180
gccttttgtt tgcatttgca ttgtcagtta tcttgaaaag gatcaacttg ggatgaaata 240
cttcttgggt ttcttgggtt ttctctctct ctctctctct ctctctctct ctctctctct
agcttaccata cttggttttg gtttttttca ttcttttttt cttttttttt cttttttttt
ttccacactt attccactt

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agccttgcttc	tacaattact	agtatgggac	tcattgcgtat	gcacgagtcg	ctccgctata	60
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ataaattatat	thggttcatt	ataacactag	acaatattat	gatgtataac	taattgagaa	180
caaaaatgaa	tatgggttaa	aaaattatga	ttaacacata	gtaaaataac	tatttatata	240
gaaactgtta	attaacaaag	tcataatggt	caagagattg	tttttagcaa	aaacatgccc	300
acaaaataaa	gtggttaatt	acaaatatta	acaaaagtca	gaataatatt	aaacttaatt	360
cattaaca						368

gcatacaata cccatgatgag gatgtcccat atgtttcttaa gactggactg attcatttgc 60  
ttgcaaaagt ttatggcctt gtaggtgaag acccgacaaa acatttgaaa gaatttcaca 120  
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ttcttcattc attacaggga ggggcaaaagg actggctgta ttacttctct ccaaaqtcca 240  
tcacaaagct ggaatgacctt aagaaagtat tcttadaaaaa aattttccct ccttcacagg 300

ccacagccat caggaaggat atctcaggta ttagacaact cagtggagag agcctgtatg 360  
 agtactgnga gagatataag aaactatgtg ccagttggcc ccaccatcag atttca 416

<210> 17261

<211> 402

<212> DNA

<213> Glycine max

<214> 17262

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 cagaacaatt atgaaccttc cagcaacaga tacaaccttg gatggaggaa tcaacctaac 120  
 ctccagatggt ctagaccttc gcaacaacag cagcctgctc ctctcttcca aaatgctgct 180  
 ggcacaagca gacatacat tcttccacca atccaacaac agcaacaacc ccagaacacg 240  
 ccaacagttg aggcaccttc acaaccttc ctogaagaac ttgtgaggca aatgactatg 300  
 cagaacatgc agtttcagca agagaccaga gcttccattc agagcttaac caatcagatg 360  
 quacaattgg ctaccaatt gaatcaaca cagtcccaga attctgacaa gctgccttct 420  
 caagctgtc 429

<210> 17262

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17262

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 tgtccagatt gcaactattg gccacaaaat tcgaaaatct gaagatgaag gaggaagagt 180  
 gtattcatga ctccacatg aacattcttg aaattgccaa tgettgcaat gcttggggag 240  
 aaagaatgac agatgaaaag ctggtgagaa agatcttcag atcttgcct aaagatttg 300  
 acatgaaagt cactgcaata gaggaggccc aadacatttg caacatgaga gtggatgaac 360  
 tcaatgcttc ccttcacacc tttagctag gactctogga ta 420

<210> 17263

<211> 410

<212> DNA  
<213> Glycine max

<400> 17263

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tgggttcgaa cciaaaaaaa aacacatttc tattttgtga gtatgatgaat tacataactga 120  
tgggttcgaa cciaaaaaaa aacacatttc tattttgtga gtatgatgaat tacataactga 180  
aacatcccttc atacacacttc tctctttagt gttaaaaagt atttagtga gjaanaagt 240  
ccacaaaaatc ttgaacctac caagtgtgat ggttgggatt ggtatgagcg cgaacatttg 300  
ccttacacat ttgaagtga cgtcactgca atggaagatg cccaacacat tcgcaatatg 360  
aaagtggatg aattcattgg gtcccttcat acctttgagc taagactctc 420

<210> 17264  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 17264

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tctgtgatcc tttacataaa gattcataaa atactggatc tccaccaaca caagcaaagt 120  
gtcgataaaa ctccaaaatg gcattttctt tcgacctat tattttttta tcttatcat 180  
ttaggaaaga aacgaaaata tcaggataac aaacattctc tagaatttcg cttaaattcg 240  
aacccatagc tgatgataaa actagaatag atattttctg tttcctactc acacgagccc 300  
atatecttgc tttctatca atctctaatt ctaatctacc ccccagttc gatattatgg 360  
tgccagtata gaccgaaatt ccgctaaggt ccaattctga accgtaataa ataccaaggc 420  
tt 422

<210> 17265  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17265

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agagagcaag atatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
 ggaagcggta tgtgcgggt agttactcaa gggacttgaa attcaagctc caaaaaactaa 180  
 cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
 taattattca aaattatag gaggaaata tggatcaat tcttaattgg ttactaata 300  
 taattatag agagaa 360

<210> 17266  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 17266  
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 tgatagtata gtaacaataa tgataagatg atcatgatat aatagtgata atggtgacaa 120  
 aaatagcaat agtaatagag atgatgataa taatgataat agtaataatg atgacaataa 180  
 cgatgataat cgcgaaagta ttaagtatac ctttatttta ttttaggttt cattacttat 240  
 ttgatgtcac tatctattat tgcattcaat ttggtcttta cttattttaa aaacaagtaa 300  
 ttcattaggt ctttttgytt caaaaactatt tatctattta tactgggtta agttaaata 360  
 acattatttt ttttataatt aatgcttg 388

<210> 17267  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 17267  
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 gctatagatt taaacatttg ggaagccata gaaatagggc ttatatctcc caccatgggt 180  
 gctgcaata caacaataga aaagcctagg gaagattgga gtgagggaaga aagaagacta 240  
 gtacatata acthaaaagg caaaaacata attacatctg cccataggat ggatgaatac 300  
 ttaggggat caaactataa aagtgcacag gatatgtggg ataccctcaa gtaacacatg 360

aaggcacaac aaatgttaaa agatctagga taaacacaca ttaactcatg aatatgaact 420

a 421

<210> 17268

<211> 17268

<212> 17268

<213> 17268

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gtttatcgag acgtccgtga ttgaaaatgg aagttccgtg caaattcaaa agacaataaa 120

tatttatttg gatgtccgac tgagtcocat aatatatcga ggcaactcgca attgaaaacg 180

gaagctcggtt ggaaattcaa aagacaatat atttttactc ggatgtgcta ttgagtcoca 240

ttatatatcg cgacgtccat aattgattac ggaagctcgc tggagattca accataaata 300

ctttttactc ggatgtcga ttcattcett aagtatatcg agacgtccgg aaatcac 360

<210> 17269

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17269

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tatcgagacg ctccgtaattg aaaacggaag ctccgtcgcaa attcaaacaa caataaattt 120

ttacaaggat gtccgattga gtcccataat atatcgagat gctcgtaatt gaaaacggaa 180

gctcattata aattcgaacc gtaataactt tttactcgga tgttcgattg tgctccgaag 240

tatctcgaga cgtctcaaat tctgaataga ggtctctagt aaattcaaat gacactaact 300

ttttactcgg atgtccgaat gaatcccyta atatatcgag atgtctgaaa ttgaaaacac 360

aagctcgtag caaatgcaaa ccacaataac ct 392

<210> 17270

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17270

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atttccctat gttcaattta tttttttgaa atcagatccc tttttttgtg tttttttgtt 180  
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240  
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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
tcaagaagct gctagggtca tgcctccatgc caaagaactt cctataatc tctgggctg 419

<410> 17271

<411> 404

<412> DNA

<413> Glycine max

<400> 17271

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tttgaaaaaaa ttttttttga agaataaaaa atgtataaaa ttagaagatt ttttttttca 180  
ttttttaagc taaatatat cacactaaaa tatatcaact tttataatag tattaacaa 240  
taaatattaa agtggttaata ctaaaatata ctacatttta taatagtctc aatattaaaa 300  
gcatcaaaat gtcttacata ctgggtttata tcggtaatcc gcaagtccgt agataaagtc 360  
cactaggcta aactaaaaaa tttaatatag ttatccagat tttt 404

<410> 17272

<411> 404

<412> DNA

<413> Glycine max

<400> 17272

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tccaggyaag attttctcca agaacacctt ctttaaggtca tcccagctga aaacggacct 120  
gtgagcaagg tagtatagcc aatcttttgt cactccctcc agagaatgag gaaaagcttt 180  
tagaagata tgatcttctt ggaatcagg gggtttcatg gtggaacaaa aaatatggaa 240

ctccttaaga tgcttatgag gatcttcacc tgcaagacca tgaaaactttg gcagcaaattg 300  
tattagtcca gctttgagaa catatgaaac accctcatca ggatattgaa tgcacaagct 360  
ttcataagtg aaatcaggtg tagccatctc cctaagagtc ctcttac 407

<210> DNA  
<211> Glycine max

<223> unsure at all n locations  
<400> 17273

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tgaggtcgca attatactgt gccagttgga gatgtatttt caccctgctt tctttgacat 180  
catgattcac ttgattgtgc atctggctag agaaatcaaa tgttgtggtc ctgtttatct 240  
aagggtggatg taccgggttg agcgatacat gaagatctta anagggtata caaagaatct 300  
atatagtctg gaagcatcta ttgttgagag gtacatt 337

<210> 17274  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 17274

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gacagattac tgcactggtc acaacaaacc tgaacaaagt aattgatgtt aattactacc 180  
cagttgaaaa tgcaaaacgg tctaacttgc ggcacagacc aattgggtatt ggagtacagg 240  
gtcttgtga taatttcata cctccttgca tggcatttga ttcacca 287

<210> 17275  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 17275

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 atagactcgt aagagtcctac ttcatataaa aataataaca aaatatctat aaataacata 180  
 ctaattaaac atttcaacca tataataaag caaaatagta aatcataaag ttgagaatat 240  
 gaaatgagga atgagagggg gaaatgagga atgagagggg gaaatgagga atgagagggg  
 attagaggta aaatttttat atttgagaat aacagctac atgagggat 300

<310> 17276  
 <311> 393  
 <312> DNA  
 <313> Glycine max

<400> 17276  
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 atagagaagt tgcaggtctt tacagcccag taggctttgt gctctatctc tacaggaaga 120  
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 gtcctatgag cccaaagagc atcatctagc ctggtgctcc aatcctttct gtccggctgc 240  
 acaatcttct cctagatcct tttatctcc ctgcttgaaa tctcagtctg cccattgggt 300  
 tgggggtggt atggtgtgtg tgcacaccta ccttttggcg ggcgagcgag gtgagggctc 360  
 acgggtgcgt ctcccatagg aggaaaatgc gcggagtc 398

<410> 17277  
 <411> 388  
 <412> DNA  
 <413> Glycine max

<400> 17277  
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 gctcaagagc ttccattaac caatttcgag ggtctcgata ttttatgttc cttaaatcaga 180  
 cctccgaggt aaaagttatg tccatttgaa tatctcgaga gcttccgttg cttaatttcg 240  
 agcgtctcta tatgtgagc tctgaatcg gaactccgag tgaataagata tgaccatttg 300  
 aatatctcga gacatccgc ttccaattt cgagcgcttc tataatgtat ggcgttggat 360



ccgacctccg agttagaagt aatgacca

388

<210> 17278  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 17278

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tctctggcct cagcaggagt catgtctcca agggctccac cactggcaga atctatcata 180  
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tgatgggtgag ggcaactggc acatagtttt ttaaactctc ccagttatc atacaggctc 300  
tctcactga gtgtgtctaat acctgagata tctctcctga tggttgtggt cctagaagca 360  
gggaaaaaat tttctaagaa tactctctta aggtcatccc agctcgtgat gg 412

<210> 17279  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 17279

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tgttggacat caaagggaga acgtagtctt gaacaccaag ctcatacaac ccggtcttgc 180  
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tgggtttatg ctctatgggt tggctgagat tggcaatagt ttgtccataa agctcaacac 300  
aatcagccca tgcgaactctt tac 323

<210> 17280  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17280

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 gaccattgoc cggtaatttt gaaaactaaa ctgggttgatt ggggtcctaa gccctttagg 180  
 ggtttgact tat tctcaa tcaaaaaaia tctcaaaagt tctgcaaga tcttttctct  
 .....  
 actacataca attatcttag taaagttaa ttgataca atctcaat at tctctaaag  
 ttgagacaga agttaatga ttggaaaact acagct 396

<210> 17231  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 17231  
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 taactgacta attcgggtta aaggttattt gacctattaa ggtcacttgc ctaattacgg 180  
 attaggtata ttgaaaaat taaggttact tgactaatta tgatttatat gtgtctaact 240  
 gattaaggat atgaatacat gactgagtag ggtttatatg taattgacca actatgggtg 300  
 aggyttatat taactatttg ttacagata catgactaat tat 343

<210> 17232  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17232

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 aattaaagta ttatttatat tttaaaaaga ataaaatgtc gagaaattag atcatatrat 180  
 gtaagtacaa aagttacgta agtgaatatt atatgatcaa tcaatattgt ttacacttcc 240  
 atggaaactca gaaactgttc tcttgaattt gaagatttgt gcaactcttt accaatcagt 300  
 ttctccacaa ttgcacaaac cctctctctg gataatatgt ttccaggtgg ccttatgtaa 360

actgtcttgt tccgtgttct ngggtcactct atggttttga tagtggacat agctatatca 420  
tcttcat 427

<210> 17283  
<211>  
<212>  
<213> Glycine max

<400> 17283  
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tctaatgaa attcgggttg ctgtttcagc agttggaaaa atgatttcgc ctctctggcc 180  
attctcagta gaaatcaaga tagagccacc agtctatcga tcaacttcta taactcttcc 240  
atgttttctg ggtgcacat ggcagttctt aattcgtact tgtttgggtt ggcctcgatc 300  
cccttgcagg tgattcatga accaaggaaac ttaccccttc caaccctg 348

<210> 17284  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 17284  
agcttctcat ttgatccagc agaggagaag catacaacct atttcaactca agtcacaccc 60  
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aaaatgaaat atgcaaaaaga aaatttgaag aagtttcaaa cggaggaatg caaatctgtt 180  
agtacacaaa tgaatcaaaa ggagaagttc agcaaggaag aaggcgttga taacattgat 240  
gaaggatatt atgggaactt gattggatgt ctaatgtatc tcactacaac gagaccaaac 300  
attctatttt ctcaaaaaga caaaacttga atttttgtga caatcaagta gtcattgcta 360  
ttgcaaacaa tccgtgtgt catggaaaaga ctaaacattt c 401

<210> 17285  
<211> 383  
<212> DNA  
<213> Glycine max

<220> unsure at all n. locations

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gnggttctat	ggacaccttc	aagtcataga	atgcattggg	ctcgttgcac	ataagttaca	120
atttcaatgt	taatttataa	tacacacagt	attccacttt	tataatgttt	attttttttt	180
ttgttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	240
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	300
ttgtttcatg	caattggaag	gtatctaac	tgatgatacc	tctgtgggaag	actggaatca	360
gtgtgttgaa	aaactaacacc	ttg				385

0210>	17236
0211>	423
0212>	DNA
0213>	Glycine max

tcttctcgggtt	tcattctctcta	tgcacctcgc	agatatcttc	accaatgttt	tatctctcttc	60
tattttttcaa	caccttttga	ccaagctggg	aatgatgaat	atccattccc	agcttgagggg	120
gggggatctta	acagcatctt	gttagagtta	gttatgatag	ttattttctgt	tgtaaacact	180
ctcgtgcttg	tacatatata	agcctctcag	tgcattttaat	aagatgagtt	gcagttttga	240
tcatcaagag	ccaagcgtag	cttttctactg	caccacctga	tattttttctt	ctcagaaaaca	300
tgagtttccac	gtttttcttc	cagcttagtt	caatatttgt	tttcaacagt	aagtttagcat	360
caacaaaatat	ataaaaatgct	tggcagagtg	tacattacta	tactacctac	gtgcttatct	420
att						423

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#210>      17237
#211>      375
#212>      DNA
#213>      Glycine max

#233>      unsure at all n locations
#410>      17237

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gtggatcccg	aaagttattat	tgtctgcagct	ctaatggata	ttatataaaa	tatgggaga	60
gctcttgccc	agaaa'aadu	tggtcttgcg	gctcacaata	ctgtatgaca	ttttggggga	120
atctaaaatt	atgtaattc	ccgacaaaat	tctaaactgc	tatttcgata	gtctctgga	180

ggtgtgtgtga tatatgtaac atatattttg gtgaatgaca ggtgtttcca gagaggoatg 240  
 gaaagtggaa agcaacaaca caatccagag agttttttaa atccataaaa caataactata 300  
 gcaatgotta caagatggg gaanaacaag atggaatana attgtattat tctttccacc 360

<211> 17288  
 <212> 394  
 <213> DNA  
 <214> Glycine max

<223> unsure at all n locations  
 <400> 17288

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 gcaatttctt ctttcaagga cacattgtca tctctctgat ctatatgctc caatgctctt 120  
 ctatccaaa aatttaccat tctgtgaggg aaaaaagctt taagtaaaat gaggttgcttc 180  
 ttaattaaaa ctctattctt tctcttagtg cttcttcttg ggaaagtact ccagaattat 240  
 ctatacatgt ggcattgaca gtaccaatga tcaatgagag taagttatto caagattttt 300  
 tcaacagttg aaaaaagatt aaataccaca gttccaacca aatacaacc ccaatgaaacc 360  
 ttgaaaacat catcccagga gctgaanat agtc 394

<210> 17289  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 17289

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 ttgttacttt cctgttatat gatgagagat tgcctaagaa ctgttctatt tctgtgatg 120  
 acaagccagt gcaattatg attaccttaa aatgttctca cacattcttg tcaattgct 180  
 tgaggggcta tctgtatggg aaagtacaa cttgtcaagt cctataaga tgcctcacc 240  
 caggatgcaa gtattgcaca tctgttaact agtgcgaagt tttctctcca tcaactctt 300  
 ttgaattctt ggagaaatcc ctgtctgaag cgaatatatg ctgtccacat agaatttct 360  
 tgcacatccc aaatcgtctt cgtctcttg atctctat 398

<210> 17290  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400>

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 caaaaatata taaactaaaa gaaatcatca ttgaaaagaa aaatccaaaa taataacttg 180  
 ctaaatattaa tttatattaag tctttcctct tcttttttgg tcatcatcat taactctagt 240  
 tcatcaagaa taaattaaca attttaagaa ttttattctc atcaagtgat ccaaatccat 300  
 cctctacaat gtctacatt ttagtctctt cttgatggta ttgtaggaaa tttcttgaaa 360  
 ggagacgaag attggtataa aaaaataata gatcctttgt ccgatgaggt gt 412

<210> 17291  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17291

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 ggctctgtaaa tcaattaacc aaaattgaga tgaagattga tgatgagttg caagcccttc 180  
 tactccttag ttccttgctg gaaagttggg acacactcgt ggttacactt agtaactcag 240  
 ctccagaagg aaagctcacc atggatacag tcagtgcacag cctctctcgt gaagaagcaa 300  
 gaagaatgga acgaggtgag tctatccatc ccgaggetaa tgttattgag aatcggncta 360  
 ggaatgagac tcttggtatgt aataagagcc gagatctgag ttttcccaac act 413

<210> 17292  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17292



ccccatatat taaggcaatg aatcggaat cagagtaaaa agttat

346

<L10> 17295

<L11> 429

<L12> DNA

<L13> Glycine max

<400> 17295

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tgcacctgtc ggcagactct gtgggttatg ctctctgcc gaccaccaca cggacctttg 120

ccctctctgtg caacaattct aagcaattga acagcttgaa gcttatgttg caaacatcta 180

caacaaacat cctcaacctc aacagcaaaa ccggccacaa caaaatagtt atgacctctc 240

cagcaacagg tacaatcccg gatggaggaa tcctcccaac cttagatggt caaatctctc 300

aaaaacagtg cagcaacaac aacaacctta cttccaaaat gttgctggcc caagcagacc 360

atcacattcc ccaaccaatc agcaacaaca acagcaacag cccagaaaaa aacaaacagt 420

tgaggcccc

429

<L10> 17296

<L11> 412

<L12> DNA

<L13> Glycine max

<400> 17296

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gtgacaccag ctgagcagat gtaattttct cgtgaaggtc ctttagttca gcaaacacct 180

gcacatagc aaaataatca gctattggac ctagcatccg gaaaagttga attaagaacc 240

agctatatat agattcacac acaattgtat ctatttatca gtttttaata tcaacctatg 300

agaagtacaa aataaaatgt ctcatttca caactacctc ctataacaaa acattattaa 360

gataactata ttctattagc ctgcacttta gtgtcaggta cactctcttc ac 420

<L10> 17297

<L11> 408

<L12> DNA

<L13> Glycine max





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 atatraacta gatcttgaag ggtattcaag ccctctctcg tcttgcttg aatgtaagg 240  
 agtgtgccc aaacactgtc acaaacattn ttctcccat gcataacatc aatacaatgt 300  
 taaagtcaa gatacacc aaaggaaga tcaaagaaat ggaatctctc tttctatc 360  
 tttctatc tttctatc

<210> 17311  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 17300  
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 atcaagccaa tcccagata agtcacttga atcaagtaaa gagaattctg aaatatgtaa 120  
 atggcaccag tgaatatggg attatgtact gtcattgttc aaattcaatg atgggtgggt 180  
 ctgtgatgc tgattgggct ggaagtgcag atgacagaaa aagcacttct ggtggatgct 240  
 tctatctggg caacaatctt atttcatggt tcagcaagaa gcagaactgt gtgtccctat 300  
 ctactgcaga agccagatct attgtagcag gaagcagctg ttcacaacta gtttggatga 360  
 agcagatgct caaggagtac aatgtcgaac aagatgtcat gacattatac tgtgacaacc 420  
 tgagtgc 427

<210> 17301  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 17301  
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 aagggtgaaa atatgcagaa atgaattctg aaccagggtg cccaatttca caatgatcca 180  
 aagggttaatg agtctgggat tatagtctta ctaggacagg ttttgggtct ctgcaagaaa 240  
 agaaaaagtt aagatgagaa ggaatttct ctccctcca actctgattc gcaatttcca 300  
 tgggtgagaa taattgaata tgaactgcaa acttgggtgt caaatttccac aacaattcca 360

cgattaaaga gtccaagatc attgttttac tgagacagat ttg

403

<210> 17302  
<211> 409  
<212> DNA  
<213> Glycine max

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ccatctatgt attaaatcta acctgataga ttaagattaa aaaaaggaaa aaaagggttg 120  
ttatcctca aataaaaactg gctttttctt ttacactggc atcgtgggtg ggtacacatt 180  
ctggtaacaa ataattacaa ttattcctac aaaataatcc agaccacccc atttgtgtgc 240  
agcaactagcg ctactagatg gatgataaaa tgggagggtt taatagatgt atgtttcttg 300  
tggattgtta taagaaccaa ctntgttcac ccaaaggtta actagtccat cacttgata 360  
ctacacaaaa atagaataca tctttttaa aacaaaagtt gtccaccac 409

<210> 17303  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17303

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tatatttaaa agaaagctgt tagaaattag taattattga ttatttttgg gacatgtaag 180  
aaagacatta tgtgtgcttt ttttagcgag acaatgttat ttggtttaat agactaataa 240  
tgtaatstaa catattgaaa catcaaatta taaatattct gtacaaaatt aatggatatat 300  
agatcctgga tgtatttatt cagcataaaa aggttctctg atgtatttta ttttttgaga 360  
ctggcctgtt ctatcttc 378

<210> 17304  
<211> 409  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
<400>        17304

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ttgtattgtg gattatcttg aatgcgtgct tcaacagatc ttgcaaccca acctactgat  120
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct
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atagcaatgg caatatcttt agtgtttctt cggcagggtt tcacatctgc aaactcttgc  360
ccaatgacta acggtctctc tgcacagta acagtactaa cagatgtgt               409
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<210>        17305  
<211>        383  
<212>        DNA  
<213>        Glycine max

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<400>        17305
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gccagggatg caagagaatg ccttaggggt ctcatgagcc ttagggtagc ttttggggcc  180
atgggttaag tatgtgccc ctatctcttg ttcattatag attatgggtt cattattttt  240
ttgggccttg atttagggca ccacagtgtg gggagggtag ccataagtt tagggtagcc  300
tagtaatgta ggatttttca gcccttgat tttagggctc acagaactagt ttttgtatca  360
gggatagttt tgtaatttca cat                               383
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<210>        17306  
<211>        377  
<212>        DNA  
<213>        Glycine max

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<400>        17306
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aaatataaaa aaagtcatat tagatgataa ctggatcatt gccatgcaat aaataactgaa  180
ccaatttgaa agaaacaatg cgtggaaatt agtagaaaaa cctgaaaatt atctgctcat  240
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aggaacaaaa tgggccttta gaaataaatt atatgaacat ggtataatta ttagaaataa 300  
 agccagggtta gtagcaatag ggtataatca agaagaagga ctagactatg aagaaacata 360  
 tgcctctgtt gcaagat 377

<211> 379  
 <212> DNA  
 <213> Glycine max

<400> 17307

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 gcaagagaat gccataaggc cctcatgagc catatggtat cgtatagtgc ccctgggtta 180  
 aacatgggoc cactgatcat tgtgatatt atatcatggt aacactattt ggtggagcct 240  
 cgaactcatg cagacattg tatgcaggga tccacataat gtt 288

<210> 17308  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 17308

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 taaatattct acttttaatt tgatccaaca acccaaaatt ccctttaaaa atgaactcct 180  
 aaataataat gcaaattaat tcttactgaa tagaaataat aagcaataaa caataaagga 240  
 gtttaaggga agagaaaatg caaactcaga tttatactgg ttgggcaca cccttgtgcc 300  
 tacgttcagt cccaagcaa ccgcttgag agttccacta tcttgcaaaa tccctttaca 360  
 agttctgaac cacacaagga caaccctcc ttgtgttca aatttctta caacaag 417

<210> 17309  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



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 taccogtgat cttgttgagc t 321

<210> 17312  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 17312

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 ctacgctctc gatatattat gtccccgaat cggacatccg tgtgaaaacg tatgaccatt 180  
 ccattttctc gagagcttct cgtgttcaat ttgagcgtc tagatgagtt atgtccccga 240  
 atcgaacatt cgagtgaaaa cttatgacca tgcgaatctc tcgagagctt gcgttgttta 300  
 atttcgagcg 310

<210> 17313  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 17313

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 cactgtggcc catccacca aggttgtagc tctttatata tccccgcagc ttgcaatgat 180  
 tgacaatcat tgccgaaagt gatggagtat ggttgaacag actacacttt acaatcagaa 240  
 ttccaatgtc tttatgcttt acagacggtt tagctaatag tgcacaaatg gcaccaaaca 300  
 tcacagctc ggcttctttt ctaacttctt tcattgaatg gttgggagga atgttgagga 360  
 catctcatg atggttaagt ctctcccaaa tgcagatct ct 402

<210> 17314  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 17314

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ggatattgac totgtgatgg aagatatgac actcaattcc attcaatttt cagaaccctg 180  
aactaatttt aattatatt atgtttatct atgtttatct atgtttatct 240  
ctttgtctaa tgaactttta tgaactttta ctctctctaa tgaactttta ttttctctaa 300  
gtgtttttgt 312

<210> 17315  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 17315  
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ccttctcgtc gattaactgtc gcattgctca tcagctggag agcacgcgaa atgctcccac 120  
ctaactccgc cagaaccatc ttgatcttct tcccttcaac aattcaattt ccaaattaag 180  
gtttggatat gcaacaccaa cacggaggtt tcagattcag attattggtc tatctctctt 240  
ccacgcgcgg taaaatgagc ggtgcattat tgggagggaa aaaaagttaa actgtaacca 300  
ctacatacta atgggccttg gctcggattg agccttcata ttgtaacca tgctatgtgt 360  
tgatccgtac gtaactgtat tacatgaaga agcttggtat gtggtgatgg aaaa 414

<210> 17316  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 17316  
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gttgtttcat gattgttcta ccaaaaaaat actccaatga ccatttctta ataagaatca 180  
atgtttaata agtttccacc atatgaacac ctttttgag atgcccattag acacaaataa 240  
ataattctgc ccacatagct cacttttaat aataaaaaaa gtctaatgcc gatatttatt 300  
gttcagttaa gtgatataat taagttagtc attttaatga ttaatatatt togataatto 360



aaagaattta ttgtcaatta accaagttaa taaccatcac tcccgatcatg ggaaaaaaaa 420

ttaagi 426

<10> 17317

<11> 346

<12> DNA

<13> Glycine max

<100> 17317

tttggttatt tattaatca tatattacat gaagttgttg ggtgcaata agtctttcta 427

atttacaatt totattattt tatatactta ataattgaat gatttatagta aaaaaaacia 430

taataattga ctacataatca tacctcccta gccggtttgt gtgcaatcaa caaaagctat 433

cttctgtttt atagactcta taatctcttt ttgtctttga gattgactct atataatttc 436

ataattgcat attaggtatt aatatattca aagaggcttg ctatctatagc taccattcgtt 439

tattttataa ttggaatagc ttagtaagtt ttaactaaat attatcttca aatatattca 442

caatgtagct ggctaataa caccaattga acaacaagtt aatgta 446

<110> 17318

<111> 346

<112> DNA

<113> Glycine max

<223> unsure at all n locations

<400> 17318

ntgaaaaaca ctttttattt tatatcaatt ggccattctc ttgtcttatt caattaggaa 450

ttcccttctt aatattctag tgatcatctt gatgttgtga cttgtaatct tgaagtattg 453

ttttgaattt taatcttgaa aagcccatct gcatcaattg caacacatca tcatgatcat 456

catcaaaaaca tcaaagccaa ttgcattctc acatgtgttc tccaccttcg agattggagc 459

taigtcttcac gattgcctaa gtgcggaccc tcaaggcaat ccgcatctct tctttttttt 462

atcggaaccc catgaatgtt attgcctagc gatattcatg tgcctt 466

<210> 17319

<211> 421

<212> DNA

<213> Glycine max

<400> 17319

tgaaggacta taccaagctc taggaaccag ggaagtagaa agatcttata taggcttact 60  
aagggttagag agaggaagac tacagatttg gatcacgtaa agtgtgttaa ggatgaagaa 120  
tttcaagctc tttcaagctc tttcaagctc tttcaagctc tttcaagctc tttcaagctc  
tttcaagctc tttcaagctc tttcaagctc tttcaagctc tttcaagctc tttcaagctc  
aactataggt atctatctgtg gatcacgtaa ggaaggttaa aggaagcttt gaaagaagtg 180  
aataacggta atgagggtggg gacagactac atacctattg aagtgtggaa aactcttggg 240  
gatataagtc ttgagtggtc caccaaactc tttaatgaaa ttatgatgtc aaaaagcgtg 300  
c 421

<410> 17320

<411> 409

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 17320

tgcatttggt gngattggct tttattccct aatgtatgat cataaagccc aggaacttgc 60  
ctttgtcgac cccaaaagtt cttttttctg gttgagycac atgtctgtatt tgcaaagctc 120  
tttgaagact tcttctaggt ctgccacgtg ttgagttatg ctctgaaact tgatgaccat 180  
gtcatcgaca tagacctcaa tgtttttgtc aatctactac ttgaaaatct ggtccatcaa 240  
cttatgggtat gtagcacctg ctttttttag ggcaaagggc atgacctat agcagaagtt 300  
agcatcctca gtgatgaatg ctattttctc ctcatcttga gctgtcatcc ggagtagatg 360  
cttaggaagc ttagtacttc gaacctggac gctcgatcaa atagcttat 409

<410> 17321

<411> 327

<412> DNA

<413> Glycine max

<400> 17321

agctttcttt taccagagaa gaaactatct tcttggctca agcctctgga gcttgcctta 60  
agccatacaa tgccttaagc aattagaaca ctctatcttc ctgaccttag atctccaaac 120  
taccaggttg tccaacaaac cactctcgtt gccaaggtac cacttcaggt aaagctgaca 180

tttacattaa tctgggtata aagaccaate tctattatgg gcttgcgcaa ttaccaacot 240  
 tatgggttca agcttagata ctggaccata acttcagaat gatccaaaac agatttttgg 300  
 aggaatctct ttgcaactaa ccttgc 327

<211> 111  
 <212> DNA  
 <213> Glycine max

<400> 17322

agcaacgttt atttcagca ttatttaatt ttttgcttcg gaatggaggg ttccattcaa 60  
 actagtatta ctgatcttaa tgcctgaatt tactttgcag attctacttc gattatagta 120  
 caacctttgt gggagacga aagatttgcct tccatctgtt gaactgtctt ttgctccttg 180  
 tgaactgtgt ccttatggg gttatgtatc cgtccattga tgggtttaa ggaaacttgg 240  
 ctccagacca ctctgaataa acttacttga tgggcttata cggatataag gtatttggtt 300  
 caattgcctt aa 312

<210> 17323  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 17323

agctttacgg agtgtctgaa agctcctca atggtagaga accactcctt atttccacac 60  
 atgtgattgc tacaacogga gtccagaaac caagtctctt cttgttgcaa gttgtcagct 120  
 tccacaagag acatgagcag catctcttct tcttcataaa tctcagcata gtttgcactc 180  
 tcttccctac ttgggcattc gtattggaag tgccttagtt tgtggcaatt aaagcactcc 240  
 actgtaggctt tgttgggaga ctgccttctt ctgcctctgc ctccaccccg accaaagcct 300  
 ctactcttgc ctctactcc attctgttct tcatgtgaga ccttcaa'gc ttgctcctcc 360  
 cttgtgtcac taactgaga a 381

<210> 17324  
 <211> 335  
 <212> DNA  
 <213> Glycine max



atggggcagt tgaggtgct aataagaata tcaagaagat agttcataag atgtctatgt 240  
 catacaagga cgggcaagag atgctaacct ttgagtcgca tggttatcga acctcagtgt 300  
 gctcattgac tggggcaaac cctttctctt tagtgtacgg gatggaggt atgtctctgt 360  
 tttgggaga gtagctctt ttcagaaggt taggcgaat 420

<21> 17327  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 17327  
 ttaagcttgt ccatcttgag ataataggtg gtcacctca ttgttagatg atgggtttac 60  
 atactctctt ggctaacag gaactccaat atttttacag cttctaattgt tatgatttgt 120  
 tgggcacac cttccacatg taaactcagc caatttctc tttagcttgt cctgtgacat 180  
 tgcctcacc tacagatcna cttctatttt tcttgggtt cctcttttgg accttttat 240  
 ggggtggaac aggggtgtgt tactgtgtct gggcccaata ttgtggctct tggactggt 300  
 caataaaatg ctggcatgtc ttattataag cttctattga cagccactca tgacacatgt 360  
 tctcaggttt cctcctttg agagttattg ttgcaatggc atgtccgcat gacatcccta 420  
 catcaaaag 483

<210> 17323  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17323

agcttaacaa aatgcattgg aagtgggtgg aattcctaga gcaattccct tatgttatca 60  
 aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
 tttctatgct tgaatacaaaa ttgattggtc ttaaatgttt gaaaagcatg tatgaaaatg 180  
 atgaaaacttt tggagaaaatt tttaaaaatt gggaaaattt ttcagaaaat ggtttcttta 240  
 gacatgaagg cttctctttc aaagaaaaca aattgtgtgt gcttaaatgt tctactagaa 300  
 atttgcattgt ttctgaagca catgaaggag gtttaattgg gcatttttgg gtcacaaaaga 360  
 ctctagaaac attt 374

<210> 17329  
 <211> 376  
 <212> DNA  
 <213> Glycine max

agagatctca agatctccac tcattaacaa acaagagacg atggcctaca aatgtatcat 60  
 atagagctc attagttatt catctgtagt gtcaaatcat aaagatttca tgcctaaqia 120  
 attctttcta ctccaatcaa ttcttagact ttagtcacca aatgggatgt tataacttgt 180  
 atgaatttca gatgagctta tcaagaatgc caagtacata gccacaccat ggaaggggat 240  
 cctggcagca gatgagagca cgggcaccat cgggaagcgc ctagcgagca ttaacgttga 300  
 caacattgag gccaacccgc aagcccttcg cgagcttctc tccaccgcta catatgcctt 360  
 caataacctc cctggg 376

<210> 17330  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <40> 17330

agcttgggta ggatgcttca atggaggaaa agaattgagag agagaaagag agagggggga 60  
 gccagaaatt gaaggaagaa aaagagagag aagttgaact ttgagttgtg atgcaatcct 120  
 ccttaggaag ggaccagtca ctagaacct aagcaagaga ctccaagaag attgggctag 180  
 agctgctgaa gaaggccta gggttctcat gaacctcagg gtagatttct gageccatgg 240  
 gctgtgttc aattatcttt gtacatatta gactaggatg tcattatatt tggtccttgt 300  
 atttagggct ccatattgta ggtagggtac cctagacata taggattttt tcagcccttg 360  
 tattttaggg cacttagact agtctttgta tt 392

<210> 17331  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <40> 17331

ntatcgtcag tctcaaaactt ggcttagtct ctatttttca aaacctatca tttactttat 60  
 ctattgtatt tttattattt tataaaaaaga aactctattt tattgtctat caaatgaata 120  
 aataaaaaat ttttttattt tctctcaaat cattatttta attaataaag gaatttctcc 180  
 taatccctta taaattagtt taaaaaaaat gaaatgttac aactgagtaa tccaaatgac 240  
 aaaatttaag tggacaa ca ggaatatct gggttgagta ggtgatgtac ataattatta 300  
 taagaaaaat atgattaacc ttaatatata agataaatat taagttaatt t 411

<210> 17332  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 17332  
 agcttcaatg ccactacctt atagggatta tgcctttatt tatagtgtct acttgataaa 60  
 tggacttcca tctctatcta ttcaatatga attgacttac taaaaactat ttcgaaatt 120  
 accagattat agcttcttaa ggatcttttg tttgtcatgt tttctctat tttgactata 180  
 tagctctct ctcactaaga ctgcttcata atgactccaa agtttctctt gaagattatc 240  
 caaaaaaate tattatgacc ctgaagcaac tatctagcaa tgcatttaag ccttcttate 300  
 aatcttcttt tttctttgaa aatattgcc aagagttta cattccaatc tttcaaagca 360  
 tgttggatat gtttgacct ttgac 385

<210> 17333  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 17333  
 gttgtgcaga gacactctat gtcttcatac caaaagctta attatacata ctgctatgaa 60  
 tttttaaaaa aaataatatt cttaataaag gatatttca tgattatgat ctctaattca 120  
 tttttcacac gtatgtttat ggttaatgca tcaattctgt ttaactattt ggaacagtt 180  
 aaaaatcttt tatattatat taactatat atgtattaaa tattaaaaata tcaataaaaa 240  
 tatgattact ctatgatttt aaaaaatct taaaattctc atgaactaca 290





<223> unsure at all n locations  
<400> 17336

tgctttctaca ccaaacctga agcatccacc tccaccataa agaattttgt taagtcaggt 60  
aaagccaaaaa ctggagcctc agtagcttct tctttaattg ttgaaaagcc agttttgttg 120  
gcttctctctc ctgcttctctc ctgcttctctc ctgcttctctc ctgcttctctc 180  
ctgcttctctc ctgcttctctc ctgcttctctc ctgcttctctc ctgcttctctc 240  
ctgcttctctc ctgcttctctc ctgcttctctc ctgcttctctc ctgcttctctc 300  
ctgcttctctc ctgcttctctc ctgcttctctc ctgcttctctc ctgcttctctc 360  
ctgcttctctc ctgcttctctc ctgcttctctc ctgcttctctc ctgcttctctc 420  
gcaaatgggc ttccaatgaa caatt 445

<210> 17337  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 17337

ttttctctgg ctgttttggt aggattctca agcgttatat agagaaagaa aggattatta 60  
gtctcaattt tattgtctcc gtgcgacgga tttttctctc tttaaaaaca ttatttcaaa 120  
aatcccaacg gtgaagatgt gagaatttga ggaccatacg cggagtctaa atttcaggat 180  
gatccaacag ttaacgaatc caagatcata gttgtactgt aataaattta cgtgtatgcg 240  
aaaaaaaaag gaattttgag agaggaagga agacgaacga atttatgagg aagtgagagc 300  
gtagatcaat atcaaaattg acctaatatg tttctatctc tagtttagagt attctaaact 360  
tattatctac tctattattt tatcttatca ctttataaaa aaaagaactc tctattacta 420  
tgctcatt 427

<210> 17338  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 17338

agtttgcctt ttgagattgt aactatgcct ttgtgtgggt gaacaagcta caaaagggtg 60  
gagcatgaaa tgaagagcca ctggttgata catggggcga gatgaaaaag atcatgatga 120

agctgtatgt gccggctaga tactcaaggg attagaaatt taatcttcaa aaactaacc 180  
aaggcaacaa ggggggttgag gagtatttca aggaatgga tgtgtctatg attcaagcta 240  
agattgaaga aaatgaggac gtaactatgg ctcaatttca taatgggttg actaaagata 300  
tatttctat tttctctat atttctatg tttctctatg tttctctatg

<313> 17339  
<311> 141  
<312> DNA  
<313> Glycine max

<400> 17339

tattgcatga gctatatcag gttgagtaca tggcatagca tacattattg aacctataat 60  
gttagcatat gtgatactct ccatataagt atactcttca gctctctttg gggattgact 120  
ttacattagt ttgaattgat catatatagg tgcacaata ggccaacttc gaatttgaca 180  
ttccaaacct ttcaataaat ttattgaggt atgtctcttg agatagatac aaaatcttct 240  
tctttctatc ccttttgatt tccattccca atattctctt tgttgcccca agtccttcat 300  
ttcaaatcc ctttctaact cagctgtgac cttggtaatt tcggccttac cgttacttgg 360  
tattaacatg tcatcaacat atagcagtac gattacagag gtaaccttat tctttttgaa 420  
tagccatttt caattgacta c 441

<310> 17340  
<311> 393  
<312> DNA  
<313> Glycine max

<400> 17340

tatcttacta taaataacaa ttaatattta ttatcaaata atagtgtaaa aataatttat 60  
actatctata tatgtataaa ctatttgctc ttaaaattta aaacaaaaga aggaagatta 120  
aaatcttctg agagcacggg aaataaaaagt atataactga gtcaaaggat gtatgcttag 180  
agacaaaagg tgcattgctt gagagttatt atgaaaattt aaatgttcaa cataggtata 240  
ttaaactaat aatnaatcta cacattaagg aaattactat gggaaattac tatggatat 300  
tggtagtgac atgaagataa tatglaataa taccgtgagt tattaactat tngtlaaata 360  
atgattctat actaaatggt cgaaattata ata 393

<210> 17341  
 <211> 378  
 <212> DNA  
 <213> Glycine max

agcttgggtgc caactcttgaa acaaaaacac aaggttcgac atatctgtgt catcatctgg 60  
 aaatccccaa tctaaatcga gacattgaa cctgtatttg cgcgcacagt ggtatgttga 120  
 atttatgaac acttctctgt tctgttttgt gctagccatg agggagaaatg cggtttgagtt 180  
 actaacacct cctccaattg acaagagagt ttccacgggc gggtaacggg agcggagttc 240  
 attgatgaat ttgggtatcc atttttcac ccaattcgggtg acaactaaggt gaaaaagttg 300  
 aggtctctgt tggataaagg catagtagat atgagtgaag tatttttgtgt caatggaaga 360  
 cugtgaaagg tcatcacc 378

<210> 17342  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17342

tcacgatgat gaatcaagta taaatcaagt agttntgatg atgacaacta gcccaaaaga 60  
 atgatttcaa gtttgagtca acaagttcaa gatcaagatt aattttcaaga ttcaagaaaa 120  
 cacatcaaga ttttaagagaa gatgaattca agattcaaga gaagaaatca agaagcaaca 180  
 agtcaagaat tcacaaggga agtattgaca aagaattttt caaaaaccaa acatagcaca 240  
 gttttgtttt acaaaagagt ttctcacaat tttctaaagt taccagagta tttactctct 300  
 ggtaatcgat taccagttaa ctgtaatcga ttaactagtga taaaatttga tttcaaaaag 360  
 tttttaactg aatttgcaac gtccaaaaag aatttttaaat ggtgtaatcg attacaatat 420  
 atttgtaatc gattaccagt gtatctgaat gtgaattc 459

<210> 17343  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17343

atcagcttc ttacatagtc cgcctttgct tgaccttctt tatgtttaan aacattaaca 60  
 ttaggcatag gcaaaagatc acgacgagtc tgtgggttaa aaccataaac aatttcgaaa 120  
 tcaaaactcc ttactctggc cagggactta ggtgtaggcc attcttgaat agccctcaac 240  
 atttctcat caatttcac tccctttgaa ctacacaaca aactaagaaa caaaatctgg 300  
 ttagtacaaa agatgcactt ttcaagattg gtatacaatt gttcttctct aagcacaatc 360  
 aagacagatt ctacatgac aatatgcaaa tcaagtgaag tgcttagata aaatatcctc 420  
 aagtcacacc acacnaactt tctataactc t 481

<110> 17344  
 <111> 430  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 17344

tgtaattggc tccaaaattt tagacaagtg gcctctgtat cttaagaagg ggggttgaat 60  
 taagataaaa aactttccct aattaaaatt ttaactatgt tttggattaa caatgcaccc 120  
 cagttgccca atcaaatagc taggtcactc gaatgaaact agtgctctta tctttacttc 180  
 ccttttattt ccaataaaaag ataagtaaag aagggcaact gtcataccct aatttcgtcc 240  
 agggactatc attcatggat attttgattt tcgctagccg aattgagttg ttgcacgcct 300  
 attaacaccc aagacgaaag atcattcgac gttntgggtga agaatgcgaa naatacccaa 360  
 aagggagggc aaaagggtca ttntaatcc tttttttgaa cctagctcg ccaggctag 420  
 cctctagctc 480

<210> 17345  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 17345

tcctagtttc agatgagca gatgtttttg taactatctc atgcactcct ctatgacta 60

tggcatcatt totggcgota aactgctggg agttggaggg catctttctca attaaatgtc 120  
 tggcttcaac aggggtcatg tctccaaagg ctccaccact ggcagcatct atccatcttc 180  
 tctccatatt actgagctct ccataaaaaa attggacaag aagctgttct gaaatctgat 240  
 attttttttt attggcagat ttttttttaa tctctcttca ctactctaac aggcattctt

<210> 17346  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 17346

tggctttctc tttatgaata atgtggtatc cactttactt ctggagaatt ctttttcaag 60  
 aagaaaatta cttaatcgtt cataccatgc cctaggggct tgtttcaaac cataaagagc 120  
 cttttgtaat ttataaacat gatttggttt attagaaatt tcaaaaaccag ggggttgttc 180  
 aacatatacc tcttcttgaa ttaagccatt tagaaaggca ctcttaacat ccatttgata 240  
 aagtttaaag ttcattatgg atgcatatgc caaaagcatt ctaatggctt ctaatcttgc 300  
 aacaggagca tatgtttctt catagtctat catgtaaaaca ttattgactc tatgtctac 360  
 atgctttata ttaatgtcat gctta 385

<210> 17347  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 17347

agcttaataa atcaatctat ggcttgaagc aagcctcttg ccaatgggat ttgaagtctc 60  
 atgatgtcgt cacttcattt ggctttgaaa agaacatcat ggaatcaatgt atataccaaa 120  
 aagtcagttg gagtaagatt ttttctctgt gttatacgtg gatgacattt tgccttgaac 180  
 taatgataag ggtttgctat atgaggtgaa ataatttctc tcaaaagaact ttgatatgaa 240  
 gcatatggga aatgcatttt atgtcatttg cattaagatc catagggaaa gatchcaggg 300  
 aattttgudt ttttttcaag agactctat taacaaattt tttagagagat ttaacatgaa 360  
 agatgttcca ccaagtgtac ctcccatg 389

<210> 17348  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 17348

atggtatatta ttgdaaahag aagttcttat tgaagcaat tegtatggtt taattatttg 120  
 ttgtaggatg tcaagtgcga gggctgcttc aacatgtaag taggatcttt ctctttattt 180  
 gttttaatgt gattataatg ataatttatg taagtgcagt taatttggtt atgtgccttt 240  
 ttttttaatt tggatgcaga acaactgtgt tttagccactc ccagacagtt gtagtatgtg 300  
 gtaactgcga gaactgtgtt tgccaaccaa cgggtggacg ggcgagggtt accgaaaggt 360  
 gctcttttat gaagaatgga gattgaatg 389

<210> 17349  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 17349

tgcttaagaa gattgctaaa gaagctagag cttatctact acatacttct ctaatagcta 60  
 agctcacttc cttgagatga gaagctagaa cttagctaca caccacctat aatagctaag 120  
 ctcaccccca tgacaaaaaa catgaaaata cacaaaaaag tctttactac aaagacaact 180  
 cataatgccc cgaaatacaa ggctaaaacc ctatactact agaatgacca aaatacaagg 240  
 cccaaaagaa ggaaaaacct attctaatat ttacaaagat aagcgggac atacttagcc 300  
 catgggctcg aaatctaccc taaggctcat gagaacctc gggcctaccc ttggatctcc 360  
 agcccaatct acttggagtc ttctacccaa tgccttgca cgataggatt gcacagatg 420  
 attagqatat tttatgcaaa acagggcatg c 451

<210> 17350  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 17350

tagcttcaat ggcctcaatga gcaatgggaa atgatagtca atcaacaaat aaagataccc 60  
 tttttatataa gaggcctattg tgataaagat ttatatgata tgatccctat ggaagcaggg 120  
 cacattttgt ttggttagacc atggaaattt gacaagaaaag caatccataa tggctcacc 180  
 atgaaataa gctccctat tggaaagaaa aggtccaaa tggctccctat tggctccctat 240  
 aatataaag aatcccttt aatctttaag gaggaactga aggaactaag tggctccctat 300  
 aagaacttag ctaagaagga aa 362

<210> 17351  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17351

ttgtggcaaa cttcaactgca gaattcataa gcttggtatg tgctaaattc cctgtcaagg 60  
 tacttcaaat agtggacaga aaatttttct tcaactgtggg gctagggact aatccttgcc 120  
 ccanaaacac aacatgccaa gggccaagta ataacaccaa atttgcagcc tcagtgaaca 180  
 acattttcttt tgcacttcca tcctctgttt ccctcatgca ggcatactat tctagccagg 240  
 ccaatgggggt ttccaagact gatttttctg ccaccctttt gaaccccttc aactacacag 300  
 gaacacctcc aaacaacaca atggtcacca atgacacana gctgggtgggtg ctcaagttta 360  
 acaccagtgt ggagttgggtg ctgcaggaca ctagtattct tggagctgag agccatccct 420  
 tgcactttca tggttatgac 440

<210> 17352  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17352

gaaattaaag atattcaaca tggatgatca agattgtttc tagagtctta ggaagggtat 60  
 attacatagg aagggaaattc ctattgaag tatcaaaaagg ttgtggcaag aaatttaagt 120  
 taaaaagctt tattcaagag atttactctc tggcatcaa ttaccagagg atgtaatcga 180

ttaccactgg ccaaaagatga tttacaacag ctattaaaat ttgaattcaa aattttgcaat 240  
 ggtgaatoga ttacacatat atggtaatcg attaccagca gtttttgaac attgtaatto 300  
 aatgtttaga gotttgaato gattacacac atactgtgat cgattaccag aggagttttt 360  
 caatgagat cctcaacagt cagatcttat tcttatcttc ttgaattgca atctatcttc

<210> 17353

<211> 393  
 <212> DNA  
 <213> Glycine max

<400> 17353

agcttgttca ggaattatct gtatgggttg gatgttgaat tctgggttgt cctgggtgtg 60  
 aatgatgggt acatgtttgt gaaccagaag cggaggttct ttttggtag gaagccatgg 120  
 aaaaacagag cgttttgaat gatttctgaa atctcagaaa actattggga aatgctgggtg 180  
 aaaaacacgaa tgcacagaaa atataaattt gaatgaggaa tgtagagggc cgtgtgaagc 240  
 aacgggtcgaa tttgccttgg ttcagttagt aaagtcttat taatgttaag tgattcgttt 300  
 gggcacgttc agatatacgt agttgctaca attcctctag cagacaaatg cccagcttgc 360  
 ccttcagttt tccaaactga tttgcatcca aag 393

<210> 17354  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 17354

tgttttgaac atgttgcgaag caaacttgaa cagcatcatg tactctcaca aagtaccatt 60  
 ctttgcctat caactccacc agaccggatc tagacaaggt aagcagaact tctggacttg 120  
 cattggatat tgcattctgc aagaagaata agctcaagtt ggttgggtgga gacattgcaa 180  
 acctgtggcg attatttcaa gaattctaac agtacttgaa accttggta' cttattctac 240  
 ctgaatgtct cgtaatctgt actcctgata caagtcttct aaagcctcaa cagcactaga 300  
 atctatgtag gtcacagctg cagcatcac aagtcataac caca'gatta caagaaagta 360  
 gaattatca' cattatcctt tca' 393



<210> 17355  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<222> 17355

<223> unsure at all n locations

aagaaaagaa aaatataaaa agacagtgtg cattaaaaaa aatcactttt attatctaca 120  
 tcaacttgaa caaccatgca tgttttgaag aaggaagaac tggcgyaate ttcattttct 180  
 tccagtccat gctaactaaa tcagttgatg ctgaataate cctgataage acatcaatat 240  
 ttgtactct attcttaaca ttctttttct tctgagtttg atcaatcacc tctccttttg 300  
 cattattttt caatgcaate ctcttatcaa gactcaatcg ttggccttc ttattctggt 360  
 ttctaaccac attatcacia ttccat 387

<210> 17356  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17356

ntaattgana ttaagttatc taattatgta agttcttgat ttaatcccta tttctctccc 60  
 ccttttggca tcaacaaaaa gccaaagtgc ataacacata taaaacatac ataatgact 120  
 aatcatacaa gacattttatt gaaaaatcta aaccgatcat gaagcaaaaa acatgaaata 180  
 tccaaattaa aatataaacc acataatcat ataacataat ttatagatgt tcagttatag 240  
 taagcaaaata gtaaaagaaa tactaaatgt tcaaatgtca taatattaca gatcatttgg 300  
 ataagtcact agcatctagc agtcttaatt ctctttctaatt gttgaagaag gaatctttat 360  
 ttagtgtcta tgagaagatg tctgcaagtt gattttttagt atctacaaat tcataacaac 420  
 atcaactgtt agaatatgat ctctaata 448

<210> 17357  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 17357

agcttttotta agaagattcc taaaaaagct agagcttagc tacacataac tttttaatag 60  
 ctaagttcas ctctcttgaga tgagaagcta gatcttagct acacaccccc tataatggct 120  
 aagttcagcc ccatgacaaa aaacatgaaa atacaaaaaa aatttccttac taaaaagact 180  
 . . . . .  
 tggttcagac gaaggaaaaa cctattctaa tatctacaaa gataaggggg ctctacttta 240  
 tctctctggc tctgactata ccttaagggt tatgagaaac ctagggtctt cctttatata 300  
 tctagcccaa tctacttgga gtcttctacc c 341

<310> 17358  
 <311> 424  
 <312> DNA  
 <313> Glycine max

<400> 17358  
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 ttttgaagga gaatagataa ggagtttatg aagaggttgt ggtaaggga gtgtttggga 60  
 aggaagaact ccaagacaaa atcaaatgg ggataagaag aagtccttag aggaatagcg 120  
 acggcagaat gcaagtcaaa gatgttggcg tggtagagaga gaggatattc ggctttgggtg 180  
 aaggcgggta tgtccatagc aaaacagggc ttggcagttg tgaaggccgt accgacaatt 240  
 cctttctcgc ggaaaaggtg gtgctgagag catgcctcct ggaaccccaa tagctggggc 300  
 tgaccatccc ccacaaaaca cgctctgtcc acaatcgaca catagttggt ctcatcctt 360  
 gaatgcccac aatccacaca tagttgttgg acgcaaggag cccatgtcag atgccaaaggc 420  
 acat 424

<310> 17359  
 <311> 453  
 <312> DNA  
 <313> Glycine max

<320> unsure at all n locations  
 <400> 17359

tctttgagaa aacttcttg agatgttaga gcttatctac acacacccct ctcatgacta 60  
 agctgacctc ctgagaagc tctcttaaga agattcttaa adaagctaga ccttagctac 120  
 acacaccttt ctaatagcta agctcacctc ctgagatga gaagctagac cttagctata 180

caacccctat aatagctaag ctcaccccta tgccaaaaaa acatgaaaaa aacaaaaaaa 240  
 gtogttgsta caaagaactac tcaaaatgac ccgaaatata aggcataaac cctataactac 300  
 tagaatggcc aaaatadaag gcccaaaaga aggagaaaac tattotaata ttacaaaaga 360  
 taagggggtt aaatgttgtt ggaaggggtt ggaatgttgt aaaggggtt taatgttgtt 420

<210> 17360  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 17360

agcttaataa atcaatctat ggcttgaagc aagcctctct ccaatgggat ttgaagtctc 60  
 atgatgttgt caattcattt ggctttgaaa agaacatcat ggatcaatgt atataccaaa 120  
 aggtcagttg gagtaagatt tttttcttgt gttatacgtg gatgaacatt tgccttgcaac 180  
 taatgataag ggcttgcctat atgaggtgaa ataatttctc tcaagaact ttgatatgaa 240  
 ggatattggga aatgcatttt atgtcattgg cattaagatc catagggaaa gatctcgagg 300  
 aattttgggt ttgtctcaag agacttatat taacaaattt ttagagagaa ttaacatgaa 360  
 agatgttcac caagtgtagc 380

<210> 17361  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 17361

ttctatgca agcttataat atatcgatac gctcgaaaatt aaacattgga aactctggg 60  
 aatttcaat agtcataact ttccacacgg atgtccgatt cgggcgcata atatgtcgag 120  
 aggtcgaaa ttgaacaacg caagctcttg agaaattaga ctggtataac ttccacacg 180  
 gaagctctcg tgaagtcct atggtcctaa ctttcacac tgaaggtcga ttgatgtta 240  
 taatatatcg atacactcga aattaaacat cggaaaactc gtagaatttc aaatggctat 300  
 aggtttcac acggatgtgc gactcgggag catgatatgt ccagaggtct gaaattgaca 360  
 aacggaagct ctcgagaaat tcaaatgggc ataact 396

<310> 17362  
 <311> 467  
 <312> DNA  
 <313> Glycine max

<400> 17362

17362 17363 17364 17365 17366 17367 17368 17369 17370 17371

ttagtttcca tccctctccac atattatcca ccccaattcg acatctatat aaaaagtcac 120  
 gttcatttga atctctcgag agtttggcat gtttaatttc gagcgtatcg atatattata 180  
 accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacy agagcttccg 240  
 ttgttcaatt tccaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300  
 ttatgacctt ttgaatttct caagagcttc cgtgtgtcaa ttctgagcgt ctcgatatgt 360  
 gatttgcctg aatcggacat cgtgtgaaa agtatgtcca ttgaatctc tcaagtgttt 420  
 cgttgatcca atttcgagcg tctcgacata ttatgcggcc gaatcgg 467

<310> 17363  
 <311> 390  
 <312> DNA  
 <313> Glycine max

<400> 17363

agctttcaca cccatgtaat ctctaatat ctcccacaat ttgtgggttg ggccattctt 60  
 ggatggcctt gattttctca gggccactt ggaacccatt tctaccaact acaaaccta 120  
 agaaaaactat attatctaca caaaaggtae acttctctat atttgcatag aaggtgtttt 180  
 tcttaagaac agaaagaact tgtctgagat gtactaagtg atcatctagg ctctactat 240  
 acactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc ctttaagacat 300  
 gatgcataag cctcataaag gtgcttggtg cattagtgag cccaaaaagc atcactatcc 360  
 attcatataa accaaacttg 390

<310> 17364  
 <311> 396  
 <312> DNA  
 <313> Glycine max

<400> 17364



aagttatgac catttgaatt tctcaagagc ttcgctgtt catttcgagc cttcgacata 360  
 tttatgogccc gaatcggaca tccgtgtgaa aagatatgac catttgaatt tccgagaga 413

<210> 17367  
 <211> 173  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17367

actttcaact tcaattatga gttagagcagg taaaaaagat tegtcttcaa actcttagag 60  
 ctgaactatga gtgtttgttt atggaggagt ccgagtcgat tcatgattat tttctctag 120  
 tattggccgt agtcaatcaa cttaaaagaa atggtgaaga tgttgatgag gtgaaggtta 180  
 tggaaaaaat acttcgaact ttaaatccaa gttttgactt cattgttacc aacattgaag 240  
 aiaacaagga ttttaagacc atgaactattg agcaactcat gggttcotta caagcacacg 300  
 aagaanaaca aaagagaaaa attaaacaaa aggaggttac ggagcaacta ctccaactca 360  
 acgtanagga agcaactat gcc 383

<210> 17363  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17363

agctcncaac ttaacttcaa tgaacaacct tcttgttaca ttatttgaaa tctttgaagg 60  
 taatttaatt gtcaattaca aaagtacata aaggctctca attttggtgg ttgtctctct 120  
 ttatgatgatt caactcaattt ggagtgtctt ttagttcaat agcttttaag gtgggttgcc 180  
 cctcgtctct tgaattgaaat tcttcaatgg atgacatcaa tcttctttt caatttccta 240  
 tatggaaact cacaacaag aaaacaaaga gacaacaat aaccaagac caaaaaatta 300  
 aatgaaggt aaaccaataa atttttaaca agaaaaattt tcaaggatta ttgcacaatt 360  
 aaagcaatga aaaggacata gaagcaagct aggactcaaa gagaaactta gaatgactct 420  
 agagtag 487

<210> 17369

<211> 351  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17369  
  
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 ttgtgagtgtt atagatgccc gtgcacagga tggccttata cgaagaggta aacagggtga 120  
 tggtaaaatt ttttaagggtg acaadagttg taacttgggt atgtgtatg ttgttaattg 180  
 ttgtattgac atgtatgcta agtgtggaga tatgaaatca gctgaaaatt tgttcgagat 240  
 tggctctatg agggatgttg taacttggaa cacattgatt actgggtttg cacaataatg 300  
 ccatgagag gagtcactgg ctgttttccac aaagatgata gaagccaaag t 351

<210> 17370  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17370  
  
 ctaagcttgt ggaagccttg agcaacaaac tgttgggttt ttggcaagct ttgaagacct 60  
 agccatcgta aaaaaaaaaag gtatgattta tcattgtttt gtttgcagta gtggccatgc 120  
 tctaacgagt gcgtacaaaa gttatcttca gttgatctaa catgttttgt ctgtggagca 180  
 ttgattcttc aagggaatga atgggtgttg acccttgaac gtagtcaaga agggaagggt 240  
 gatctcgaca atacaaagca cgaaggggt aatgttgatg gccgaatgg aggaagaatt 300  
 gtaccaatat ttgacgaggt gaaggtactt gtaccaagat catggatgtt ctccaacaaa 360  
 acatctcaat taaacctcan aactggatg agtgacttca gtttgggtgt ctaa 414

<210> 17371  
 <211> 235  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17371  
  
 tggcattgaa ataaaaaatt gtaggtgttg caaggggttg tggtagtgc ttttgggtg 60  
 agaaatataf agaacttgn ttttatatgc agcaacttgc agcaattgac cagcctgaag 120

cttattgctg ccatatttac aatagacctc ctcaacctca gcagcaaaat caaccacago 180  
agaaccattg tgacctttcc cygcacagat acaaccctgg atggacgaat cacc 235

<210> 17372  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17372

agcaattctt agagaatcgg catgatatgc gctctaaata caatatccgn genatttttag 60  
aagcngcatg taacttgatg gctaaggctg caatgacaag aaataaaaatg attttgctca 120  
acattcaaaa tgatgtggca caatatctcg agatgtgcta caaggatgca tctgggcttt 180  
ggcatattca atttgggcac cttaattttg gaggattata gtttctctcc aagatagaaa 240  
tagtgagagg attgtcttgc aatagtcacc ttgatcaagt gtgtgaagga tgtctacttg 300  
gcaagcaatt taagaaaaac atttcaaagg agtctaactc aagagctaaa aaattgttgg 360  
aacctatgca tatagatgtg tgcagttcta tccagccgta gtcacatgga 410

<210> 17373  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17373

agttttetaat gngnncataa tgattgcaga agcatactta gttctccga aatcctcttg 60  
caaaaactgc agcataatgt ctgtgggtc tgtggtctg aagaagcttg gtaaatctca 120  
acaaaatttc tttagccca ggtaaccaat cgatggcagt ctccaaatag ccatttgta 180  
tatcagtcga ctctgcaagc ataggcatgc aataaattga gtgcatttat gaattcatgt 240  
tatatggaaa atcacgttgc aacatcagtt agtataatat ttatagatat cgtctttaat 300  
tcaatgttaa gaaattgatt tgaatacac ggtcaatttt gagttcaaca aaaaaaaaac 360  
atcaaaaaat aaattacttt act 383

<210> 17374  
<211> 383



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17374

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gctctgctggc atgggcttgc gtttcaaaat cccggcctcc tccaaagctc gctctcttc  
atctgaacggc tccgggttcac caactccccc gctgggtcaa gcaaggacgt cccggctccg 180  
tttcccacta tttcaaaccc taacacaaat gtgttgggga agaagagggg ttaccgttac 240  
aagaggctca ttttagagggc aggttactcc aaggaacaac actccctctt ccgcacgggt 300  
actctggtae gctatgcctc tctcaacaca cgcctgtcag tgaatgttat ctgctcttat 360  
gtatatggtg gtgtatgc 378

<210> 17375  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17375

catctaagct tcaacgatga aaacaaggctc acttacagtg actgagtttt tcaactcgtc 60  
acgtgtaatt tgggatgaga ttgagaactt tagaccgat cccatctgtt cctgtaatat 120  
caggtgttcc tgaacgcac taccattat cgcgcaacgg aagctcgagg atagagccat 180  
gcagttccca cgaggcctga aggaacaata tgctaataat cgttctcatg ttctctctgt 240  
ggatcccata cccgtatct ccaaaatatt ctctatgta gctcaacagg aaaggcaact 300  
actgggtaac accgaaccag gtattaactt cgaacccaaa gatctctcca ttaacgctgc 360  
taagaccgtn tgcgatttct gtggacgcac tggtcatgtg gaaagcgcgt gttataagaa 420  
gcctggag 428

<210> 17376  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 17376

agcttgcact tctcaaaaga gtcaacaagg agatcagcag caccgtcacc atggttaaggg 60

tbaatgtgga agccagaactt gccatgcaca atgatctcag caggaccacc attgcattgtg 120  
 ggaatgttg gcaaccacaa agtcattggcc tbaaccactg tcaaaccaaa agctctgtat 180  
 atagccgggtt ggaagaaagg tcccttgggtg tcgcagatca cagggtacag ctctccgttc 240  
 tcccttgggtg tcccttgggtg tcccttgggtg tcccttgggtg tcccttgggtg 300  
 accagggcgt acatctctct cctctggggt tctctctca agtctctcga ctctctctct 360  
 ctgctctcgg caaa 4

<210> 17377  
 <211> 346  
 <212> DNA  
 <213> Glycine max

aaataaggtt gctctaatcc ccgcaaaaag acgattcatt cagctctacc agcgaattct 60  
 tcaaatgcaa gtaacctttt ccagtggtcc ccacacaatta attcatagtc atataacgat 120  
 gccctctcag ctagaatcta agattatgga aaataccaaa agcgagttag aagttgcaag 180  
 aaaccaccac aaaatogaag tcaatttca agcatttaag tattatatat acaagtatgt 240  
 aacattaaca caacttatcc agcaaaggca tgttatcttt ctgtgctnta tgtgtatgtg 300  
 agaggaaagg ataagctcta tctggtaata tcatctacag ctgcac 346

<210> 17378  
 <211> 375  
 <212> DNA  
 <213> Glycine max

tctagtcttc tcaacatagt ccgcctctgc ttgaccttct ttatgcttaa aaacagaaac 60  
 attaggcata gcaaaaagat caagaggagt tagtgggtta aaacataaa caacttcaaa 120  
 aggagaacaa ttagtgggtgc tatgaacagc tctattgtta gcaaatcca catggggtaa 180  
 acaagcttcc caagtcttta agttcttctt caaaactgtc ctaagcaaaag tcccaaaagt 240  
 cctattaaca attctcgttt gccatcggt ttgtgggtga caagtgggtt aaaataacaa 300  
 tttagtgccc aacttgctcc acaagctct ccaaaaatgg ctaagaact tagagtcctt 360

atcactaaca atgct

375

<210> 17379  
<211> 365  
<212> DNA  
<213> Glycine max

ttatcagcat tctcactctgc tcatcacaaca attcatatcc ttggctttac gagacatccr 60  
ggcgatacaa agacagggtta accatatctc gectgegeta attgttccat gctatctgta 120  
ggacactcat tgatcctgtg aagtctgatg acctgtacaa tgaggccgca gccataactgg 180  
ggcagtttga catgatatto accctatgc tttctttgac atcatgatta acctgataga 240  
gcatctgtgc agagaaacca aacgatgagg gectgtttat ctatagagga tgtaccgggt 300  
aaaacgatac atgaagagcg taaaagggtta caccattaat ctatatcgac tacacacatc 360  
cattg 365

<210> 17380  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 17380

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tggttccagt ttaaactgta tgctaagag cactttggag aaattaccat tcaatgcctc 120  
ccacctaaag ccgagttcaa tgggtggttcg tgccttcgac ggcacccgcc gagaggttag 180  
gggacagatc gacctcccag tacagatagg ccttcacaga tgccaagtta ccttcacaaat 240  
aatggacatt aacccccctt acagctgtct gttgggggtgt ccgtggatcc acctagtggy 300  
aattgttccc tctacacacc accaaaagtt gaaattcgta gtggaagggc atctggtcat 360  
cgtatcaggc gaggaagaca tctt 384

<210> 17381  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17381

agctttgtga agctcctggt ttatctttac cggattttac tcaaccattt gaagttgaat 60  
 gggatgctag tggaggtggc attggggctg ttttgataca aaacaaaagg cctatagctt 120  
 attctctcga gaaattggga ggagccagat tgaactattg cacttatgac aaagagttct 180  
 tggatcaga tcatgagttc ttgaagtata tcaatgggca gcagaagttg agtccaaagg 240  
 atcttaattg ggtgaattt ctctatctt tcaattctc ttcaaatatc agggatggta 300  
 agagtaattg ggtggctgat gcactt 336

<210> 17332  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 17332  
 tccacccaaa tcaaatgata ataacttttt actcggttgt ccgaatgaat accgtattat 60  
 atcgagaggt tccaaattga caacggaggc tctgagaaaa tccaaacgac aataactttt 120  
 tactcggatg tcagattgtg tcccatagta tctcgagatg ctcgtaattg aaaccggatg 180  
 ctcgtagcaa attcaaacga caataacttt ttactcggat gtcogaatga atcccataat 240  
 atatcgagac gctcgtaatt gaaaacagaa gctctgagca tattctaattg acaataactt 300  
 ttactcggga tgcagattg agtcccgtaa tatatcgaga cactcgtaat tgaaaacaga 360  
 agctctgaga aatatctaac gacaattact ttttactcgg atgtctgaat gaatcccg 419

<210> 17383  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 17383  
 agcttggtat caaagtacat gaactatgct agtagaatc attttcaggc agcaaaaaaa 60  
 gctcttagat atgttaaagg cacaattgat ttgggaataa gataccatta tgttaaaaac 120  
 ttcagaactc atggttatcc tgatagtcat tgggctggat gtgctgatga tatgaagaat 180  
 acttcaggtt atctttttac ctctgggtct ggaattttct catgttatc aaagaaaacg 240  
 gaagtaatat cccaatccat agcagaagca gaatatgttg ttgcaactgc tgcctgtaat 300

caagctctct agatcagaaa gcttatgaca gaattgcata tggacaaca agacaatacg 360  
 caaatatttg tggata 376

<210> 17384  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<213> unsure at all n locations  
 <400> 17384

tccgcttatt agtgaacaat tcttctctta atttagtata tcttggaatt cgccttattg 60  
 cctccagcag aggtatgttt acctctactt ttctaaatgt tccaaagatc tctttctatg 120  
 cctcttccat ttttttggtg gaaattgctc ttggagggaa tggagagggg atatgtgtct 180  
 tctctttaga ttcacctgga tagaaattgt taggtaactt acctcttaa tttttgtcat 240  
 catcttttct tggagtagag tgaggttggg caggttcatt ggtggatgag gaagatgcta 300  
 ctggttgagg tcttgacac tgccttctctg acctcaatgt aatgacactc acattnttgg 360  
 gattctggac agattgagaa cgtaatctat cagaattctg ggactgttgt tgat 414

<210> 17385  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 17385

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 agttgaagca gtagactaca ccatcaggac tggagaggaa attgcaacaa ttttacacaa 120  
 gaatctcagg aaagcacagg agaggatgca gtgtatgtct aacaagaata ggacaaacaa 180  
 agaatttgca gtgggagatt gggtatattt gaagttacat ccatttaaac aacagtcaat 240  
 acctaaactc gcgtttcaca aattagttgc acgattttat ggtccttaca gaattgtaga 300  
 gagagtgggg aaggtggcat acaagctaga cttaccagct caagctcgca tacataatgt 360  
 attccacatt tctctg 376

<210> 17386  
 <211> 484  
 <212> DNA

<400> 17336

427

<212> DNA

<213> Glycine max

<400> 17337

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acaatttacg gacgtataat gctgccactt aacatgacat ctgatgatga accaatttac	180
gtaaatgcta agcagtagca tggaaatcatt agacgtcggc agtcccggtgc caaagctgta	240
cttgatcaca aattgactaa acgtcgcaag gtatgattcc tcatatgggg gtatccaca	300
tattttttca ctcatattaa tgaacattat agtctcagct tcaactggcct tgaaaaaaag	360
taggfatgat agggttggctt ggccctaactc ttgtagaaaag tgatagatta tctctttcaa	420
gcaacgc	427

17388

374

4212 DNA

<213> Glycine max

400 17348

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 tttcattgca ttttggatac taaaagtgat gtaacactaa aacatagaaa cctacttgta 180  
 cttttgaacct ccatggacca agaacctatc ccaattacca ctgtgttcca cagaaaactcc 240  
 atttcaatt tttcattcac caagacctaa aggagctgcc ataggcaaaq tagtcaagta 300  
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<210> 17389  
 <211> 407  
 <212> DNA  
 <213> Glycine max

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 atccccttcg ggggcgctcg cttcgccttc ttgactccc ttgctacgcc tgcgcgggag 180  
 ccgtatccga agtcgcgat ctccgaatcg aataatgacc aatgctgcca ggaaccattcc 240  
 tgggatgaga acgctaattc gcagaaaggg tcgtcaattc cctgagataa cgaatccctg 300  
 actggcttcg aaacgtctgc gattatagag gacgatcccg attacgtacc cgagaggggt 360  
 cctttgctgc tggcgtaggc gcggacgac attttacatg gagatcg 407

<210> 17390  
 <211> 406  
 <212> DNA  
 <213> Glycine max

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 aaagaacctt aacctatata ctatgtgac aactatataa atgataatca taacatttca 180  
 attatataat catcaagaaa taaggtctga catgggttag gttgtctggg tttaaaaaat 240  
 atttagattt aaccaaatta atattaatca gaaaaaaatt atatagaatt aaacaaacaa 300  
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406

<210> 17391

<211> 379

<212> 01

<213> Glycine max

<223> unsure at all n locations

<400> 17391

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gtgactcagt aatggttgtt accttaggtt gccattctct acttaaacad cttaataatt 180

tatttatgat atcttcattt ggaaaaattt tccctaaaga tgcaagatga tttattatat 240

gtgtaaacct ctcttgcatg tcttgtatac tttcatttga attcattcta aataattcat 300

atttatgagt taatggattt acctagata tttccacatc tgttgtgccc tcatgtgtta 360

cttgtagggt atccacat 379

<210> 17392

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17392

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gaaatatttt ttctaattgat gcaagatgat taactatatg tgtaaatctc ttttggatat 180

cttgtatggt ctcatcttga ttcattctaa acagttcata tttatgtgtg agagtattta 240

ttctagatct ctgacatca attatgcctt catgggttac ttgtagtgta tcccacattt 300

cttttgcatt ttacaattt gaaactctaa aataattcat catgcctaatt gcagaggtaa 360

ttatattttt gaccttana ttatatgaa cccctctctt ttcattctca tcccattgtt 420

ctctag 426

<210> 17393

<211> 398



<212> DNA  
<213> Glycine max

<400> 17393

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gttcaatttg tttcagggtt taaaattaat agagatgttg atgggtcaga tggggatgac 180  
atttatctca gttaaaatgt tgaagatca atgtatctca caactacaag gtcagatata 240  
atgtatagtg tgagcttaat tagcagatat aggtcaaaac caatagagtt gcatcttaca 300  
gttgttaaaa gaattattaag gtattttaaag ggaaccacta gctacgggat attctacaag 360  
aagggagggg cagaagactt gtttgcttct acggattc 398

<210> 17394  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 17394

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cttcttttaa aagaatgcga tgggaaaatt acagaggaca ggaatccctg ggggaaacca 180  
agaagaacac aaaaaataa aaacatgcag cgacttcctt aattgcccc gatctcaagg 240  
atagtatcgc ttgacaacgt cagagtttac gggatgaagg agctccttgt catccatggt 300  
agcgagcacc agggcccttc cggagaaagg cttttttaca acgaaaggcc ctctgtagtt 360  
cgggacccac ttctctttgt tgtctttcag agcttgggag actttcttca gcaacaagtc 420  
ccct 424

<210> 17395  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17395

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ctaaattctt ctcccagaat tatcatccaa ataaaaactct cattatttta aaaaaaata 420

cccaact 426

<210> 17399  
<211> 371  
<212> DNA  
<213> Glycine max

<214> 17399

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ttacatctct tctttttctt ttgggtttct agttttctt cctcatcctt cttatcttct 440

atagttattt gatcttttggc tacctgtgaa ggtgttttaa gatgcaaac aaactctgtt 450

ccaagatggg tgagggttat ctccattagt aggcattat agattatttt cctatgatat 460

tgcctatggcc tacctaagag aaggtgtcct gctccataa gaactacatc acaaatcact 470

tcatccttat atgttccaat ggagaacggc accttcactc tgtgattgac tatcatctcc 480

ccttgctcat t 371

<210> 17399  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 17399

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agacccaaatg gctcctaaga tgataggact gacagagacc aagaatgaag aggatgaact 500

gatgcacaca acagagcaga acaattggcg agtatgcatt gggcatagga ggttgaattc 510

agcaaccaca atagatcatt ttcccttggc ttccatggat caaaggctng accgcttggc 520

aggtaaatct cattactgct ttctcgatgg attttatggc tgttggcaaa ttcattttgc 530

tcttgacgat cttagaaaga ccacattcac ctgtccctta ggcactattg cctatatgac 540

gatgcctac aacctatgca at 382

<210> 17400  
<211> 337  
<212> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 17400

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<110> 17401

<111> 409

<112> DNA

<113> Glycine max

<400> 17401

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ctctcagatgg tccagcccta agcaacaaca acagcagcct gctcttctct tccaaaatgc 180
tgttggccca agcagaccat acattctctc accaatccaa caacagcaac aaccccagaa 240
acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300
tatgcagaac atgcagtctt agcaagagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa ttggtaccc aattgaatca acaacagtec cagaattct 409
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<110> 17402

<111> 357

<112> DNA

<113> Glycine max

<400> 17402

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gggttctcta gacaaaaccc aattgatggt attaaactca acattctctc atttaaagga 180
aagaatgato cggaggccta ctgggagtgg gagatgaaaa tagagcatgt tctctcatgc 240
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aacaactatg aggaggacca aaaggtgaag cttgccgccca cgggaagtttc cgactatgct 370  
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<210>  
 <211>  
 <212>  
 <213> Glycine max

<400> unsure at all n locations  
 17403

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 ttttaccaaa gagtttttac tctctggtaa tggattacca gactattgta atcgataacc 180  
 agtagcaaaa tggatttgaa aaagtttttc aactaaattt acaacgttcc aattgatttc 240  
 aaaaagctgt aatcgattac aatgttttgg taatcgatta ctagtgcctt tgaaagttga 300  
 aattcaaatt caaatgtgaa gagtcacatc ctttcacata aaatntttgt gtaatcgatt 360  
 acaetgattt ggtaatcgat tacttgtgat tgtttatgat taaatcaaaa gatgtaactc 420  
 ttc 423

<210> 17404  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 17404

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 aaactatctc ttgtaacaaa gtgatcaatc tgaattaacc atgatcaaac tatatctatg 180  
 ttaagatccc ccttcaagct aggaatggat attggatatt ccttaacttgg aatacaaaaa 240  
 ttgaaaagaa tcaggcagca tggccttagt gtatatgtct gaaagctcat tagcaaaagt 300  
 gataggaagt aatttcacaa ttcctttatg catctctctc cgaactagat gacaatcaat 360  
 ctttaatatgt ttgtctctct catgaaaaac atgatatgtt gctatatgaa gggagatctg 420  
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<J10> 17405  
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 <J12> DNA  
 <J13> Glycine max

<J14> 17406

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 tggatgcaa aataattgat gcacacctgt cttgcttcag gcttttgagc ctgcaaggcc 180  
 tttttgtctt cttacagcac cttctgatac aattccagtg tcattctcta caacacaggt 240  
 caaatgcctg tttagaatga gtgaacaata acgaagaaaa tataaaggtc aaacgtaaca 300  
 caataaaagc atgatgg 317

<J10> 17406  
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 <J12> DNA  
 <J13> Glycine max

<J400> 17406

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 gttgctggtg ttgttggtgc tgttgctgtt gtgaatgatt tgaccatcta aggttgggat 180  
 gattctctca ccggggattg tacctatttc tagagaggtc atagttgttc tttgtggct 240  
 gattttgctg ctgaggttga gggggtctat tgtagatgtt tgcagcataa gcttcaagct 300  
 gttcaattgc ttcatttgt tgacaaaaag gcaaaagtct gtgtgggtgt cggcaaacga 360  
 tcatatacca tatagtctac c 381

<J10> 17407  
 <J11> 404  
 <J12> DNA  
 <J13> Glycine max

<J23> unsure at all n locations  
 <J400> 17407

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attgtgtgtg agcatcttta ttatctttat cattcttttt tetctgtgaa ttcttaattt 180  
 tcaaaactaaa ttttaacatat gccaatgtat agttttaatat ataaaaaggag aaactattgt 240  
 aaaatataaaa attcaactct tacacataaaa aapaaaaaat gtgttagagat agacatatat 300  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 ttgtgttaggt aaacaaata aaataaaact ttaactact atgg 444

<10> 17408  
 <11> 434  
 <12> DNA  
 <13> Glycine max

<23> unsure at all n locations  
 <400> 17408

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 caactcccca ccaaatattat tctgtcttaa atccaagatg aacaaatggg tcaagttcaa 180  
 aagggctctct gggatatccc tggagaaagt gttgttcccc aagaacaatg catcaagacc 240  
 agaaatggaa ccaatttcac tgggaatata tccagtataa ttgttaccag aaaggttgag 300  
 aaacaacaaa ttcttgcaat tagcaacctc ctttgggggc ttacogtcaa attcattaac 360  
 agaaagggtca agttttttcaa ggtacaatt gattggaaaa gccttggaag gaacaacccc 420  
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<10> 17409  
 <11> 422  
 <12> DNA  
 <13> Glycine max

<23> unsure at all n locations  
 <400> 17409

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 gggcaaaaagt ctcatcatta gccaatccat attggtgctt atttccaagg acaactaaac 180  
 gagctttgta acgatctatg gatccatccg agcgcagctt tatagagaa acaaacttgc 240  
 tacttaaaagg ctttaacagat gtgggacacg ggaatatata caatgtttga ttttttcca 300

atgctagaag ttcagtttca atagctntct gccacaagc attcttcatg gcttggtat 360  
aagaggaagg gataggaata aaggataatg aggtgtcat ggaatggata taactgtctg 420  
gg 482

<210> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17410

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atataaagaa gtccctaata caaagactac ttaaaatgcc ctgaaataga aggtataaac 180  
cctatactac tagaatggcc aaaatacaag gcccaaaagt aggaataaac tattaata 240  
tttacaagaa agagtggacc caaccttggc ccatgggacg aaaaatctac cctgaggttc 300  
atgagaatct tanggccttc tttagcagct ctagcccaat ccttttggag tcttctatct 360  
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<210> 17411  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 17411

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ctatcttcac ttttttactc aagttatgaa ttcccttaat gacaatcttc ttaaatatta 180  
attcaaacaa agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240  
aagagaaaat gcaactcag ttttatactg gttagaccac acccttgtgc ctacgtccag 300  
tcccgaagca acccgcttga gagttccact atcttgtaaa ttctttttac aagatctaaa 360  
cacataaaga caatcttcc ttgtgt 387

<210> 17412





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<310> 17415  
 <311> 413  
 <312> DNA  
 <313> Glycine max

<400> 17415  
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 acaacttccc aatgcgcact gccagcctct cccatgagtc tgcctattat acttacaaca 360  
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<210> 17416  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17416

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366

<210> 17417  
<211> 430  
<212> DNA  
<213> Glycine max

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attctgtggt gcgcgtttcca agaattgagc cctccggatg aaaagccgca gatgtgtacc 360  
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aaattatgta 480

<210> 17418  
<211> 399  
<212> DNA  
<213> Glycine max

<213> unsure at all n locations  
<400> 17418

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cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
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atatacatga tattgttgag ctgcaggagt ttgttgaaat ggatgaattg cttccanag 360  
caatccaagt agagcaacaa ttaaaaagga aaggagtgg 399

<210> 17419  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17419

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actccttaag atgcttataa ggatcttcac ctgcaagacc acgaaacttg ngcagcaaat 300

gtattagtc agctcttgaga acatatggaa caacctcacc aggatattga atgcacaagc 360

tttcataagt gaaatcaagt gcatccacc 339

<210> 17420  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17420

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caccatcagg aaagtccggc cttatggtgc aatagagttg tatgatccac aatttcagga 180

ccttgactga acatggttgg tgaatggcca aagattgaaa ctgtaccatg gtggagagtt 240

tgaaaaggca aacaccatct taaatttgat ataaccatt gaggtatatg cgtcaggcta 300

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<210> 17421  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 17421

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gctctgagcg aattcaaacg acaataaatt tttaactcgga tgtgtgactg agtcccgtaa 240  
tatatcgaga cgttcgggaat tgattatcga agctctgagc aaattcaaac gacaataagt 300  
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<210> 17422  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17422

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aggaacaacg ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
tattgaagaa gatgaggagg taactatggc tggatttctt aatgggttga ctaatgatat 300  
ctgtgatagc tgcangaagt tgttgaaatg gatgatttgc ttcacaaagc aatccaagt 360  
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agtttga 427

<210> 17423  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17423

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actttttcga cctgtgaggt gaaatacaca gcagctactt cagtgttttg tcatgcagtt 180  
tugcttaaga atttgthaaa agagthaggc atgtcacaag aagagccaac caagatcttt 240  
ggcgacaata ggtcaggcat tgcctcagca aagaatccag tgttccatga tcgaagcaaa 300  
catattgata cctgttacca ctacataagg gactgcctag caagaaagga tgtacagta 360

gaatatgtga agtttca

377

<210> 17424  
<211> 361  
<212> DNA  
<213> Glycine max  
<400> 17424

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atgttgagat ggaggataaa gaggaacaag aggatgagct cttgttaata accttcatag 120  
attgcataga agggaagaag gatgagtggg ttctagactc gggatggggc aaccacatga 180  
gtagttaaaa ggaattgggttc tcagaattgg atgagaacct tcygcacaat gtaaggctgg 240  
gtaatgatac tcaatagctc gtgaagggga aaggtagtgt ttggatggtt gtgaatgaga 300  
gtatcatgtt aatcacatat gtatattatg ttcttgaact caagaataat ttattgagta 360  
1 361

<210> 17425  
<211> 375  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 17425

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ctatacgaga catcttgcca aacaaagtea ggttagccat aactggcttg tgetttttct 120  
tccatgctat atgtagcaaa gtcattgac ctaacaagtt tgatgagctg gaaaatgagg 180  
ctgcaattat actgtgcccag ttggagatgt attttcccc tgttttcttt gacatcatga 240  
ttcaattgat tgtgcatttg gtcaaagaaa tcaaatattg tggctctgtt tatctacggt 300  
ggatgtaccc ggttgagcaa tacatgaaga tcttanaagg gtatacaaaag aatttatatc 360  
gtccagaagg atcta 375

<210> 17426  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17426

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ttatgtatca tgcagtttat atgtaattta ctttttactt aatgattgca aaataatgca 100  
ttaaatttat ttttatttat ttttttttat ttttttttat ttttttttat ttttttttat  
ttaaaggatt agatggcatt aaagttagat ttttaaatag aaagggttat ttaagtattt 150  
tgattttata ttaataaaaa agdaaatata atgggccttt gttgttattt aatgtcaaaa 200  
ttcctaatat tttttagagg catttgggga agctttcttt gaacacaagg actgtttctag 250  
gtaactcaaaa gtgaccaagt ttttggtttg gttgtggctg gaggtttctt tgtttctgtc 300  
tttgtgagac 400

<210> 17427  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 17427

agcttaaaaca ttttatttcg agcgtctctg tatattacgg gactcaatca gacatccgag 50  
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atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 150  
agaggttcaa aattcaattt cgaacgtctc gatatattac gggactcaat cagacatccg 200  
agtaaaaagt tattgtcttt tgagttggct cagaggttca acattcaatt tcgagcgtcc 250  
cgatatatta cgtgactgaa tcggacatcc gagtaaaaag ttattgtcgt tcgaattggg 300  
tcgtgaggttc aacattcaat ttcgagcgtc tcgatattatt acg 400

<210> 17428  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17428

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aagttgaatg ttttaatttt aagccaattc atacgacaat aactttttac tcggatgtct 100

gattgagtc cgtaatataa cgaaacgctc gaaattgaat gtttaagctt tgagccaatt 180  
 staacgataa taacttttta ctccggatgtc cgattgagtc tcgtaataa tcgacacgct 240  
 cgaaattgaa tgttgaagct ctaagcctat tcaaacacaa ataacgtttt actccgatgt 300  
 aggttcgtt taacttcgtt ctttcgtttt tcttcgtttt tcttcgtttt tcttcgtttt

<211> 17429  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 17429

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 gcataggcaa taagatcaaga ggagttatgt ggttaaaacc ataaacaact tcaaaaggag 120  
 aacaattagt ggtgctatga acagctctat tgtaagcaaa ttcaacatgg ggttaacaag 180  
 cttcccaagt ttttaagttc ttcctcaaaa ctgtcctaag caaagttccc aaagtcctat 240  
 taacaacttc cgtttgccca tcggtttgtg ggtgacaagt ggttgaaaat aacaatttag 300  
 tgcccaactt gctccacaaa gtccctcaaaa aatggcttaa gaacttagag tccctatcac 360  
 taacaatgct ccttggcaaa ccatggagtc tcacaatctc ctt 403

<210> 17430  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17430

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 attattgtaa tcgattacca gtagcaaaat tgttttgaaa aagttttcaa attgaattta 120  
 caacgtttcca attattttca aaaagctgta atcgattaca atgtttgggt aatcgattac 180  
 cagtgccctt gaactttgaa attcaaatte aaatgtgaag agtcacatte ttcacacaa 240  
 aagctttgtg taatcgatta caataatttg gtaatcgatt accagtaact gttctgata 300  
 atcaaaaaga tgaactctt tacaagcttt ttgaactttt caaatgtgtt taaagtgtt 360  
 ctaaaagtta taactcttct aaatgtctct cttgactaga catgaagagt ctataaaaac 420



aag

423

<L10> 17431  
<L11> 354  
<L12> DNA  
<L13> Glycine max

<L23> unsure at all n locations  
<L40> 17431

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aacgcattca cctgtccott tggcaacttt gtctatagga ggatgcoott tggcoctatgc 120  
aacgcccotg gtacottcca gcggtgtatg cttagcattt tcagtgattn tttagagagt 180  
tucatagagg tttttatgga tgattttact atttatggat cctcttttga tgcattgttg 240  
gatagtctag atagagttct caatagatgc attgaaacta accttgtgct aaattttgaa 300  
aaatgtcact ttatggtaaa acaaggtata gtcttagggc atatcatttc tagt 354

<L10> 17432  
<L11> 407  
<L12> DNA  
<L13> Glycine max

<L23> unsure at all n locations  
<L40> 17432

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ctattttcag attgngaatt cctctaacag caactttgtc aatgattttc ttcattgcctc 120  
ttaagtgcag atgtccaaat ctttgatgac atattttgac ttcattctct tgggagaata 180  
uacatgtgga ggagtaactg gttctttgag gtgtccatag gtatgcagttg tcttttgatc 240  
tgetgccttt cattagaact tcaactctct catttgcac taagcattct gaattttgtga 300  
agtttadatt gaatccttca tcaacagct gactgatgct gattcaagtt gtatgcagtc 360  
ctttcaccag cagtactttg tccagactat gaagtccatc atggact 407

<L10> 17433  
<L11> 413  
<L12> DNA  
<L13> Glycine max

<L40> 17433

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 gataaaggta gtgttgccat gttttcaaag cccacactaa ggcaaacaaa tctttatcat 120  
 aagttgaata gtttaagggtt ggaccactta acttttccact aaaataagca attggatggc 180  
 atttttggg gtttttggg gtttttggg gtttttggg gtttttggg gtttttggg 240  
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 tgaaggttc ttttgggttc ttttgggttc ttttgggttc ttttgggttc ttttgggttc 360  
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<210> 17434  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <400> 17434

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 acaagctgcc ttctcaagct gtccaaaatc ccaaaaatgt cagtgccatt tcattgaggt 120  
 cgggaaaaaa gtgtcaagga cctcaaccgg tagcaccttc ctcactctga aatgaacctg 180  
 ccaaacctca ctctactcca gaaaaagggt atgacaaaaa ttacctaac aatttctgtg 240  
 caggtgaatc ttctccaca ggtaattctg atttcagaa gcagcacatt cccctcttc 300  
 cattccctcc aagagcagtt tccaacaaaa aaatggaaga ggagagaaa gagatcttgg 360  
 atacattcgg aaaagtagag gtaaacatac ctctgtctga tg 402

<210> 17435  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
 <400> 17435

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 aacggtcgtt gtctcgagca agggagacga ggggaagcgg tgcgtctgaa cgttcgtcca 120  
 aggaagcacc ggagagaaga atggcgacct gtccccagat gatgcagaga atgggctcgt 180  
 tgcggcgat gggagggagg cccaggtact cgtcgtagcg ctctctggcg gaggcacgtg 240  
 ggaagctcgt agaggtcgtt gctgttcttg ggcgcctggg gcatgagggc ggcgaacttc 300

ttcagtttgg atttcagctc cagacattcc tgcgggaaat tctggctctc ttcggcaagc 360

<210> 17436  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 17436

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cabaatgggc aaggatgcat gggagatcct gaaaaccaat catgaaggaa cctccaaagt 120  
gagatgttcc agattgcaac tattggccac aaaattcgaa aattctgaaga tgaaggagga 180  
agaaagtatt catgaattcc acatgaacat tcttgaaatt gccaatgctt gcaatgcctt 240  
ggagagagagg atgacagatg aaaagctggt gagaagatc ctcagatcct tgcctaagag 300  
atttgacatg aaagtcactg caatagagga ggcaccaaac atttgcaaca tgagagtga 360  
tgaactcatt gggt 374

<210> 17437  
<211> 441  
<212> DNA  
<213> Glycine max

<400> 17437

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atagcagaat aattatgac tttcaagcaa cagatacaat ccaggttggg ggaatcctcc 120  
aaatctgaga taggcaagtc ctccacaaca acaatagcat gtcctctcctt tccagaatgt 180  
tcttgggtcca agcaagccat atgttcctcc tctaatacag cagcaacaac aacaattgtc 240  
anaaaaaaga caatcggaac ctgaggctcc tctcaacct tctttataag agatagtgag 300  
aacaatgacc atccagaata tgaatttcca gcaagagaca agagcctcca ttc aaagtct 360  
aacaatcat atggggcaga tggctactca gttgaaccaa actcaatccc aaaattatga 420  
caaatgcct tcacaaaactg t 441

<210> 17438  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 17438

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gagtaggtgc acgtgttctt ctatgaactg caatttccat tccgaactta tttacgatgg 120  
tcttctctct ccttctctct ccttctctct ccttctctct ccttctctct  
tggaaaaat aagtcctctt tccaaagaga ctcatctgaa attcatattg cactctgggc 180  
tcttaattgc aaacatttc tttcgacatc cctccaaaa ca 240

<410> 17439

<411> 423

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 17439

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aqaattgcag tgcttgacaa cctgggtctt cgaatgcgtg ggaggaccat ggtccgggca 180  
gtccaccat ccaacaaaag agaactatcg tgggtcgggc atgttgggtt tgttgttgat 240  
gcttgggtggc atgatggatg gtgggaaggc attgttgttc aaaaggactc ggaatctaat 300  
tgcctatgtt atttcccagg tatgaatgic tgccttttct atgttaatta gcttatgttg 360  
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tgg 423

<410> 17440

<411> 321

<412> DNA

<413> Glycine max

<400> 17440

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atggagacgc taaaaafaga gactagatgc tctgagcaaa ttgaaatgac aataacttta 120  
taccggata tccggttgag taccgtaata tatcgagacg ctccaatttg aaaactgaaa 180  
ctcttagaaa attcagacga caataaacta tactcggatg ccttatagag tgcattata 240

tatcgaggga tgcttcaaatt tgaaaaacgga agctcgtatg aaatccaaac gacgataacc 300  
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<310> 17441

<311> 17441

<312> DNA

<313> 17441

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 acagcagggg agaattcaat acattttcct ctgacaaaca cttttctgata ctcatcactc 180  
 tttctgtttg ctatgtcaga gggaatgttg acaatgaatt ccttgactag actttcataa 240  
 caatcaccca tcttgggtgac agttttcagc agtccagcag ccttgatgag gtccatgata 300  
 tcttggcaat ccaaggcact tgtgtccagt tctttttcta aggcacgtct gggttgatat 360  
 acaaatctcc acct 374

<310> 17442

<311> 371

<312> DNA

<313> Glycine max

<400> 17442

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 gcagaatggt gttgtggaga ggaaaaatag atcccatgaa gaaggaacta taactttttac 180  
 aattgaacaa aagttacctt agtacttttg ggctgatgct atacatacta ttgtctacac 240  
 ttggaacata gtaattataa gacctacact aaatcttatg aactttataa aggaagaaaa 300  
 caaaatatat ctcaattgag ggtttttggt tgcacatggt ttatttttaa caatggtaaa 360  
 gattctctta g 371

<310> 17443

<311> 424

<312> DNA

<313> Glycine max

<400> 17443

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gcttcaatc tgcctcatt ggcctgaaa tgcctcatt tgcctcatt tgcctcatt  
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gcttcaatc tgcctcatt ggcctgaaa tgcctcatt tgcctcatt tgcctcatt 300  
gacatgaaag tcaatgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
ctcattgggt cccctcaaac ctttgagcta ggactctcgg ataggactga aaagaagagc 420  
aaga 424

<410> 17444

<411> 408

<412> DNA

<413> Glycine max

<400> 17444

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ttctttttct tggatttacc tctcattaaa aaaatatcaa tgaaaaatat gatggattaa 180  
ctgggttttc ttttcttggt atcggagaaa agataatgat tttcattggt ctcattatct 240  
agtatttgga ttgtacatt ttttattggt tattatctat tcattcatta tattagtaaa 300  
tttagttgt ttttaaataa caatatttga tgccaaaata aaataaaatg attagaactc 360  
aaggtattaa ttaataacta ttatttcatt tatcatttat aattattt 408

<410> 17445

<411> 353

<412> DNA

<413> Glycine max

<400> 17445

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aaaattatcc acaattatct atttgaagat gactgatcgt atatatctta aggataaaaa 180

gagaataaaa tattttaago taacaattaa tattgcaaca aatactactt tatgtatcat 240  
 tccaaaacat atgagtgatt accatactat attatttatt gaattctgaa ataaaactttt 300  
 agatagtggg acatagttaa atgctagcta aatgactcc tcagatgtag cta 353

<212> DNA  
 <213> Glycine max

<400> 17446

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 cttaaagtgt gcataaactt ttataatatt tacataacct ttaggtgata tattcaatta 180  
 ttcaattataa tttttttatc tagaggattt ataacaacaa ctcatgtacc tttattttaa 240  
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 taaaaatata ttatcaacta ttcagtaaca attataaact gccttttggt tccctaattt 360  
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 tgat 484

<210> 17447  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 17447

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 tatataaaca ataagcgtca gaggtccat gtgaatgtgt tgggatgaat gatgtgatac 180  
 attaacattt ttggttggaa gattttcagt actaagtgac aacttggact tgcactgaa 240  
 aatgtaatat aataatatgt tgaagtcac ggttggctctt aaaatataaa accagagggg 300  
 taaaatttaa gcaagttacc ttgactgaaa attgcctatc caggtatgca aatctggcca 360  
 ttacatcca at 372

<210> 17448

<400> 17448

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>E10>      17449
>E11>      372
>E12>      DNA
>E13>      Glycine max

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<400> 17449

42106	17450
42116	409
42126	DNA
42136	Glycine max

2400 17450

12345678910



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aatgctcaag agcttccatt gttcaatttc gagcgctcag atatatatg cacctgaatc 240  
ggaactgaga gggacaactt atgaccatct gaattgctca agagcttcca ttgttcaatt 300  
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<210> 17451  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 17451  
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<212> DNA  
<213> Glycine max

<400> 17452  
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ggaaaacatc ttccacttga gaagatttcta atgcttgctt ttcaccatga 410

<210> 17453  
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 <212> DNA  
 <213> Glycine max

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 ctcaataaaa caggagcaga tatattctca gaccccactc tgtatagatc agtgggttga 240  
 ggaatccaat actccaccat aaccagacct gagcttagtt ttgctgtgaa caaagtatgt 300  
 caattcatgg ctatctctct tgaacacac ttgatagcta taaaagaat cctcccatat 360  
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<310> 17454  
 <311> 377  
 <312> DNA  
 <313> Glycine max

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 ctatacgaga catcttgcca aacaaagtca ggttaacaat aactcgtttg tgcctttctt 120  
 tccattctat atgtagcaaa gtcattgac cagtcatgtt tgatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgccttcttt gacatcatga 240  
 ttcattgat tgtgcacctg gtcagagaaa tcaaatgttg tggctctgtt tatctacggt 300  
 ggaatutacco ggttgagcga tacatgaaga tcttaaaagg gatatagaaag aatctatctc 360  
 gctctagaagc atttatt 377

<410> 17455  
 <411> 394  
 <412> DNA  
 <413> Glycine max

<420> unsure at all n locations  
 <430> 17455

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atctggtcga atctctccaa gcagcagcaa caacaacaac aactctattt tcaaaatgct 180  
tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt  
tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt  
atgaattatc caaacatgct gtttcaacaa agaacagag cctctattca cagcttaact 240  
aatcagatcg gaccaatcgc tacacagctc aattc 300

<210> 17456  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 17456  
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aagcggaatg gagaaggaag aaagatgatt ggagatgcc cttcaaggag aagatgagtc 120  
aagaacaagc tcaaccacct aagaagccat ggataagagc ttgaaggtag gagaagatga 180  
gtggagggag aaggagagaa ggagcacgaa atttagttcc tcaaatgagg tatgaacttt 240  
gaagtgtaat tctcaaatga tcaaagttca aaaaatacac acatatggcc tttatttata 300  
gcttaagtgt cacacaaaat tgtagggaaa tttgaatttc tattcaaat tcaattgaat 360  
ttgaaattga attt 374

<210> 17457  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 17457  
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cacagtcttc acatattcta aggatcttga caatcttgag agtcaactca tgcctagttt 120  
tcaatagccc aaatgccacc gaaagcttct cactgtggtt cctgacgga tactctcttt 180  
cttctcttta caactcgtgc atcggggaat ctggracggg tgcataagct gcatctctgc 240  
aactccatat caactcctcc aagaaactat aaatctcatt agtctcaagg tgaactctgt 300

caccatgct aaaaagataa ctactattgt caacatctat ggtgctataa ccacttgc 360  
tc 362

<10> 17459  
<11> 375  
<12> DNA  
<13> Glycine max  
<400> 17459

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aatcaagata agtatgaaaa agttttttca aaaaactgag tagcacatgg atttttctca 120  
aaacatgttt accaaagagt tttactctc tggtaatcga ttaccatatt gttgtaatcg 180  
attaccagta gcaaaatgtt ttgaaaaag tttccaactg aatttacaac gttccaattg 240  
atttcaaaaa gctgtaatcg attacaatgt tttgtaatc gattaccagt gtgtttgaac 300  
gttgaaatcc aaattcaaat gtgaagagtc acattcttcc acaaaaaggc ttgtgtaat 360  
cgattacact aatttggtta tt 382

<10> 17459  
<11> 375  
<12> DNA  
<13> Glycine max  
<400> 17459

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tcaattctca gactctcgac atattatgg ccgagtcgg acattcggt aaaaagttat 120  
gaccatttga atttctcgag agttttcgat gttgaattt gagcgctctg atataccata 180  
agccgaatc tgaccttagt gtgaaaagtt atgaccattt gaatttcacg agagcttgcg 240  
ttggccaatt tcgagcgta ctatatgtga tgcgcacaag atggacatc gagttaaatg 300  
ttatgagcat gtgaatttct caagagctgt ccgtgatcaa ttctgagcgg ctgatatgt 360  
tgatttgcct gaatc 375

<10> 17460  
<11> 393  
<12> DNA  
<13> Glycine max

<400> 17460

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ggtacottag ttaatatatt ttgtgtgtgt cttattctgt tgttgataat taaattattt 120  
tattatttgt gttacatata ttgtgtgtgt ttgtgtgtgt gttacatata ttgtgtgtgt 180  
ttattttaa ttattttta taaatattgt aggtatttt ttatttatt ttgtgtgtgt 240  
ttgttttaa ttttttttgc atattaattt atgtatttca aatattattt gttttatttt 300  
tttaaatgtt tttttgtatg ctttttaatt tat 360

<210> 17461

<211> 377

<212> DNA

<213> Glycine max

<400> 17461

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aatctgcacc tgtcaccaga ctctgtggtt tatgtctctc tgcgaccac cacacagacc 120  
tttgcccttc tgtgcaacaa tctgaagcaa ttgaacaacc tgaagcttat gttgcaacaa 180  
tttacaatag acctcttcaa cctcagcagc aaaatcaacc acaacagaac aattatgacc 240  
ttctcagcaa caggtacaat cccgggtgga ggaatcctcc caacttaga tggtcgaacc 300  
cttcacaaca gcagcaacaa caaaaacagc cttattttta gaatgtgtgt ggcccaagca 360  
aacatacgt tcttcca 377

<210> 17462

<211> 239

<212> DNA

<213> Glycine max

<400> 17462

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cctcttgacc agagctccat aacaacatga accgcacag cctcttcca agctctcttg 120  
atggacatca ctttaggact cccagccaa ttgtgcatta ttgaactct cctcttcca 180  
tactgcacat cttgatagt caaaagcttc ctgtctgata atgacttgcg tgcatactc 239

<210> 17463  
 <211> 331  
 <212> DNA  
 <213> Glycine max

atggcaata ggggaattcc tctgaaaaat tacaacacca tctctgaac gagccacccc 60  
 attccctagg aagacttcta atgtccctag tctttcgtct caaaatgaat caataaatgc 120  
 tcccttagct aaccaatctt agtagcatca tccctgtca tcaactatgc atcaacatat 180  
 actatcacat aaacacactt ctccagaggat gaatgacaat aataaacaga atgatcaacc 240  
 tcaactcgtt tcaatccaaa aagtccaaca ttatgaactga atttaccaaa ctaagcccca 300  
 cgggattagc ttcacccata gagagatcaa c 331

<210> 17464  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17464

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 agtcacagtc agtgtgcttt gtaatgccca tgggtgagtc aggttcaggc cattgtggat 120  
 agtatcgacc caaaatataa agtgccctcag cgcagtcacat ttctttgaag taagaagggc 180  
 taatgccaaag agcctctgac aatagctcan agattgtaat gcccaacacc cttacttttt 240  
 tggatatatto agccacaata tctctgcgaa agcatgatta tttcatcaat gacaag 296

<210> 17465  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17465

tgaaggagtt tattgcacaa gggaattatt tcactttaaa agtgggtcct aattccatcc 60  
 caaattttca acttacctat ttggatgiga catcatggca gataggctcc aactttccat 120  
 cctgcattca atcacaaaaa aaacttcaat atattggact gtctaacaag gggattttag 180

attctattcc cacttgggtc tgggaaccac actctcaggt ttgcatccta aacotctoto 240  
 ataatcakat ccattggtgag cttgtgacta cattacaaaa tccaatatct atccaaaactg 300  
 ttgatctaag cacaatatcc ttatgtggta aattacoota tttttcaaat gatgtgtatg 360  
 at

<210> 17466  
 <211> 188  
 <212> DNA  
 <213> Glycine max

<400> 17466  
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 acaattccta tttttcttga tggccttgtt actgcattgg gcctatatct aatttctgtg 120  
 aatgaatto ttttgttgg tgaggtgaga aagttctgtc cttatatgat ttttaagata 180  
 atacattcat gtacacagatt aagtgtctgt gttgtttgtt tagaggttgg aacottggaac 240  
 aaaaatctgg tggcacagca cccgttttgt ttgggttcaog ttttttccat ttgtgaaaga 300  
 catsttttgt taattagaat caattccagt taaagtggga accagtatgt tctcattcct 360  
 ctaattgttat gtctggcaat aaaaaatgtt cagatgctat tatcgatcaa tgtaattgaat 420  
 at 482

<210> 17467  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 17467  
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 aatggtaata atcaattact tctttgaaat aattgattac attgttatatt taattgatta 120  
 caggcaggta ttacgagctg gtataagcta gaataacatt attagataat atgttcttta 180  
 catcggttat ttatgacttt caacatctgt ttttaaatcg atgttgaaaag taccgaagtt 240  
 gataggatta ttgttaacat cggttcttta ataactgatg ttaacgaaaa ttaccacatc 300  
 gatataaat aaccgaatgt ctatataaat acacacaaaa tgttat 346

<210> 17468  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17468

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 tttctatgta ttgtcaacc gggtacatcc accgtagata aacaggacca caacatttga 180  
 tttctctgac ctgatgcaca atcaagtcaa tcatgatgtc aatgaaagca aggggaanat 240  
 acatctccaa ctggcacagt ataattggca gctcatcttn caactcatca naacttcacag 300  
 gatcaatgac ttgtctacat atagcatg 328

<210> 17469  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 17469

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 ttgttaggta acctactctt taaattgttg tcatcatctt tctctggagt acagtgaggt 120  
 tgggcacggt catttgcgga tgacgaagat gctactgggt gaggtccttg aactgcttt 180  
 cctgacctta atgtaatggc actcacattt ttgagatttt ggacagattg agaacgtaat 240  
 ctatcagaaa tctgggactg ttgtgatct aactgtgtag ccaactatcc catctattag 300  
 ttaagctcta atggaggctt tgg 323

<210> 17470  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17470

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 tcaattagct tagttgcttc tctctgggtc tttagcttta tttctcctgc tgcagaaaca 120  
 tctaacagtt acctgggttg ttgtctcage ccatctatga acatattcaa ttggatggc 180



tctgaaatcc catgggtggg agttcttctc aataaacctc tgaacctctc gaatgcttca 240  
 ctacagagatt catcacggaa ctgatgaaat gaagagattg cagctttccc ttctgcagtc 300  
 ttggactctg gaaagtattt ctttagaaaac ttccaacaa cttcttccca gggtttcaga 360

<211> 17471  
 <212> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17471

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 gtcaatctta tatatgggtg ttgtaaagtt ggactcatta agaaagggtta atagaattat 120  
 ttgattacaa atagacaatt atttataact tttaaagtaa taataatagg atttaattat 180  
 ctttttggtc ttgaaatttg attgattttt aaaattttta acataataaa ttgatacttt 240  
 agaataattn ttattatgac aatttttaaaa tacaattca aacaattaaa aagtaaaaat 300  
 taattttatt caactaaaaa tcataaaaaa tgtcaattta ttataccaaa gataaaaaag 360  
 taattttataa aaaataaggg caaaaaaata tacaacccc aaattcaagg acttatgtct 420  
 aataataata aaaac 435

<210> 17472  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17472

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 tactcggatg tctaatttag tegtataata taacgagacg ctogaatttg aatgttgaag 180  
 ctctgagcaa attcaaacga caataacatt ttactcggat gtctgattga gtcccgtaat 240  
 atatcgagac actcgttaatt gaattttgaa gctctgagcc aattcaaacg acaataactt 300  
 ttactcggga tgtctgatat agtccgtaa tatatcgaga cactcgtaat tgaatattga 360

agctctgagc caattcaaac gacaataact ttttactcgg atgtctgata tagtcccgtc 420  
 atatctcgag ac 432

<10> 17474  
 <11> 425  
 <12> DNA  
 <13> Glycine max  
 <14> 17474

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 tctgtgaaa ccccttcacc acaagtctct ccttgctatct tcttctacgc tcagattctt 120  
 cctttagcct atagaccac ctattctgaa cgtctctctt ccttctggaa atttagttaa 180  
 aacccaagtt ctattctctt gaagggatgt catctcatct ttcctcgtca gctcccactt 240  
 attagtgtca tccccctgtg taggctcact gaaacattct ggtccaacag catcagttaa 300  
 c 301

<110> 17474  
 <111> 425  
 <112> DNA  
 <113> Glycine max  
 <123> unsure at all n locations  
 <400> 17474

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 tatchtctca gctaggccct aagtccaaat tctaagatgg tatcaaagtt atcctagatc 180  
 cattgctggg ccatctacat tgccatgtct taagccgatg ccttggggcat gatgagagag 240  
 tttctaaacc accttaattg cggtcactcg ttacttactc tagctgtggc ctttttgggg 300  
 tctactttaa ttgtagctct aagggtgggg tttactctca cattgattac agatattctt 360  
 tannataaat aagcgttaca agtgcgtgaa accctcactc ttgagctaac tattgtggtc 420  
 agtgc 425

<210> 17475  
 <211> 283  
 <212> DNA

<213> Glycine max

<400> 17475

caataagggt tgcgaaggtgc atggcattgg gactgtcaga ctgagaatgt ttgacaacag 60  
ggaatggttg ggcgaatggt tggatgaggt tgcgaacgtc agcatataacg tttatggtat  
ggtggtggtg ggcgaatggt tggatgaggt tgcgaacgtc agcatataacg tttatggtat  
tggatgaggt tgcgaatggt tgcgaacgtc agcatataacg tttatggtat 240  
atccacagtt atgggacaag cattctgttg caagtcaaac aat 288

<210> 17476

<211> 370

<212> DNA

<213> Glycine max

<400> 17476

aggatttaga ccagtaatt gtcttagaat gggagctatt ctaagatgat ttcggtgtca 60  
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aaataaatag ggtttacgaa aataatgagg tttctgaatt aaataaaaag gaggaataat 180  
ttataataaa aaatgggtta agggaataat aaattatttc tagaaataaa actggttatta 240  
ttataataaa agtaataagt ctttttaaat ataataagaa atgagtattt cgtgaagttc 300  
tcaatataaa agaccttgca ttactacat cgccttcttt ttottaatat tttctttctt 360  
caaccttttc 370

<210> 17477

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17477

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cagaacaatg caacagcaaa aaggtttccc actgaggaaa ctgttgttga tggggaagac 120  
ataattagca agttgcarga aagcattctt ggtcacatcc tttctttctt tccaaatg 180  
gaatcagttc acactagtgt gttatcaaaa aggtgggttg atgcttggaa atccataact 240  
ggcctacaat ttaatgatac ttgctttgtt ttggggaaaa agatgcacaaa agaacagttt 300

ggtgtgttttg tgaacatggt gtttcttcac cttgccaaatt caagtatcca caattttctct 360  
 ctttgttttaa caogttatca gtatgattca accttgataa gtgcattgat ctcttttato 420  
 tntaaaagg 429

<211> all  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17478

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 cgcaaataatt gaagttttca tgcctaacag actgccaaaca aaagcttttg aaaagaagac 120  
 accatttgaa gaatgggatg gctataaacc tgagttgctc aatctgaaga tatttgagtg 180  
 cttgtgcttt tctttacatt cctcggggtc agaaggacaa actagacatg agagcagaac 240  
 ctggaaacct tgaggctata gcttaatttc acaggcctac atgattctant tgccacatca 300  
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<210> 17479  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17479

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 tgggataata aagacattgg atgtcccat ttacatcaat aaggtttctg gaaacaccat 180  
 cttctgcttg gatcgggatg ggaagaaaag agccatagct attgattoga ctgaatatat 240  
 tcttaaacct tcttgttgga agaaaaata tgaccargtc atgaacatga taaagaattc 300  
 gcagctttgt gggcaggtg tgattgctta tctccagcaa aaaggttttc ctgaggttgc 360  
 cctccattnt gngaattgat agagaatacc gtccaatttc ggttggaga gt 412

<210> 17480  
 <211> 338

<212> DNA  
<213> Glycine max

<400> 17480

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ttaaagaaga gattgctgct tccctctcgy tagctctgga ctctgggaag tattctctta 120  
ttaaatttct aaaaacatct tcccatctct ttgagctggt acccttaaat gaatgaadcc 180  
acctcttgge ctctcatgce aatgagaatg agaataggct gactcttata gcttcatctg 240  
gcacaccaac aatcttaaca gtgtagcata tttcaatg 300  
338

<210> 17481  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 17481

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cccttacaac tacgtagact cataacggga gataggtttg aggtcaagat ctaattctaga 120  
gaattagttg gtagatgtgc acaccaagct tgaacattca tcccggaacc tttatgtgag 180  
catcaatatt atggatcgge tcttagcagt taggacaggt gcaaggttgg gaatgttatt 240  
ggtttggcatc agagtcatgc tgagggcctg caaaattgaa gagatctgat cctttctgat 300  
cccttgaggt aataaagata tatatacgcg tcatgttt 338

<210> 17482  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17482

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taaaagaate tattattttg agtcattaat atattaaaaa tcttgttttg aatctctctt 180  
atcagttatg tgatgatgtg atatcatcac aacccatcaa taaaatttga aaaatttaatt 240

tgtaagggtga tacgtcatct gtcactaat gataaagatt aaaaataata ttatattat 300  
 caaggacttc aaacaccata cttaatcatt acacatgtgt aataaaataa tcatttatta 360  
 ttgac 365

<211> 17483  
 <212> DNA  
 <213> Glycine max  
 <400> 17483

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 ataactaagc tcactcctt aagaagagaa gctagagctt agctacacac cctataata 180  
 gctaagctca ccccatgac aaggctaaaa aatctacat ttctagggta ccgacctac 240  
 attatggagc cctaaatata aggctaaaaa ataatgaaat cctagtctaa tatgtacaaa 300  
 gataagtggc cccaaccttg gcccatgtgc tcagaaatct accctgacgt tcctgagaa 360  
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<210> 17484  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17484

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 tttaggtaaa gacgattaac taaagatttg gtcatgtaca aaccttcaag cttaaaccaa 180  
 atccnagcag cagttgtttc cttagagact tgccctcaga ccttgtctcc gagactgagg 240  
 ataattgcct tgtgtgcctt ctgcagtagt gctttcttat cccctcaga catcatctt 300  
 ccaactttgg ctctccatc aagtgcctcc accagggcct gctaaacaag aatagctctc 360  
 atcttcaatc gccatagccc agaatcattt tgcctgtga atnnntcaac ctcatacttg 420

<210> 17485  
 <211> 416

<212> DNA  
 <213> Glycine max  
 <400> 17485  
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 tctattgaa ggactttatt gaagctttaa gaccttaact ctatgatga atctctctct 120  
 ttaagggtcat tgggtagaag actcaaaata gattgggcta gagatccaag ggaagggctt 240  
 aggggttctca tgagctttaa ggtagatttc gagcccatgg gctaagtatg agcctgctta 300  
 tctttgtaaa tattagaata ggttttccct tggcttgggc cttgtacttt ggccattcta 360  
 atactatagg gttttagcct tgtatttoga ggccatttga gtagtttttg tagtaa 416

<210> 17486  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17486  
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 tgggaagtgc taaacaagtg tcttttaagt tgggcaatct tagtagtate atttcttgtt 120  
 atcactatat catcaacata tacaattaga taaacatact tctcaggaga tgtatgacaa 180  
 taaaaaacag aatgatcagc ttcacttcat ttcaaccan naagttgaac ggtatgacta 240  
 aatttaccaa accacgtctg agggattgct tcaaccata gagagatcga tgtagcttac 300  
 atacgagaat actccnctg agcaacaaac ccaggagggtt ggctcatata aatc 354

<210> 17487  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17487  
 tcagacaatc caaataatta agagacatta tttttctgtc atgagcactt ttaattgtaa 60  
 acattagtat atctctgcta ttaaaccatc tttagaccaat agagttgctt aactttattt 120  
 ttatgagctc tattatataa catctttaat aaatntaaca aactttttca ctttttaata 180

atgtaactct tcatatctaa cttaaaatag atctaataaa ttattgtaga tgtttatatt 240  
 tttttaataa ggaattatct taatattaaa aacaggtctt tgcaaaagaa gaatatgtgt 300  
 agtctctctt cactanata actctaatag tanaaotggt ataaaattaa ttgthaagtt 360  
 ttttaattt ttttaattt

<210> 17438  
 <211> 126  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17438

gacactcaga gtaactcage ttgttagttt gtcacccctt tcattagttt tttttttata 60  
 cctaaaattg atttccagtg cctgttaatt tatgcaggat ttaccaagta gcaaatgtga 120  
 aatctgaatg gaactgtatc aaaaccttcc ctgattttatc tggaaacaggt tttatacctt 180  
 tttcccattg ttcattatct cttgagggtt tgatgatttc atgtttgttc agttactaat 240  
 acacaactcg aactttttct tctcagggaa gaacacgtgt gtaaaatttg gtccagatct 300  
 taaatacata gctgtgggat caatggaccg aaatcttcgg atattcggtt tgcccgggtga 360  
 agatgctctt actgagtcct aaaatgcctc agttgtacaa ggcacagttt tgcctcggag 420  
 taaaca 426

<210> 17489  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 17489

atategagac gctcgaattt gaatgttgaa gctcttagca aattcaaaca acaataacct 60  
 tttactcgga tgactgattg agtcccgga tatattgaga cgtctgata tgaatgttga 120  
 agctctgagc aaattcaaac gacaataact tttactcgg atgtctgatt gactcagata 180  
 tatatcgata cgtcgaattt tgaatgttga acctgtgagc aaattcaaac gacaataact 240  
 tattctcgg a 251

<210> 17490



```

:42>      unsure at all n locations
:400>      17490

```

[illegible]

```
<L10>      17491
<L11>      421
<L12>      DNA
<L13>      Glycine max
```

```
<223>      unsure at all n locations
<400>      17491
```

tcaacattca	attntgagcg	tctcgtaatt	ntactgtact	caatcagaca	tccgagtaaa	60
aattttattgt	cgttttgatt	ggcttcagaga	ttcaacattc	aatttcgagc	gtctcgatat	120
attacggggcc	tcaatcagac	atccgagtaa	aaagttattg	tcgtttgaat	tggttcagag	180
cttcaacatt	caatttcgag	cgtctcgata	tatgaccgga	ctcaatcaga	catccgagta	240
aaaagttatt	gtcgtttgaa	tgggttcaga	gottcaacat	tcaattttga	gcgtctcgat	300
atattacggg	actcaatcag	acatccgagt	aaaaagttat	tgtcgtttga	attgggtcag	360
agattcaaca	ttcaatttcg	agcgtctcga	tatattacgg	gactcantca	gacatccgag	420
:						421

```
<210>      17492
<211>      414
<212>      DNA
<213>      Glycine max
```

4223> insure at all 11 locations  
4400> 17492

tcttagtttc agatgatgca gttgagtttg tagctactct catgcactcc totaatgact 60  
 atagcatcat ttatggcgct aaactgctgg gagttggaag ccattctcac aattaaattt 120  
 ctgggttccag caggagtcac gtctccaagg gtctccaccac tggcagcacc taccataact 180  
 ctggtgagggc aactgggcaca tagttnttta aatctctccc agtattcaca caggtctctt 240  
 ctattgagtt gctcaatacc cgagatctcc ttcttgatgg ctctggtctt ggaagcaggg 300  
 acattttttt ctaagaatac tctcttccaag tcctcccaac tcttgatgga cctt 414

<210> 17493  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17493

ctgtcatcat gcgcagactc aggaaggcca ataggtttag ccttctcaat gtattctgaa 60  
 caaaattcaa tggctctcttc tgcaatgtac ctctcaacaa tagatgttgc tggatgatat 120  
 agattctttg tatacccttt taagatcttc atgtatcgtc caaccgggta taccctccat 180  
 agataagcag gaccataaca ttgattctct ctgaccagat gcacaatcaa gtgaatcatg 240  
 atgtcaaaga aagcaagggg aaaatacacc tccaactygc acagtataat tgoggcctca 300  
 ttntccagct catcaaactt gacaggatca atgactntgc tacatatagc atggaagaaa 360

<210> 17494  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17494

tttauctaat tntatcgaac atatcttata taagctaata actaaaaaag ttacaagcta 60  
 ctactagtat gtttgggtaca caagcttatt ttaataaact gtttttcata agctacttta 120  
 aataacttat ttctatthaac tgccttgaaa taacttatga aaaataagtt ataagctact 180  
 ggttttttcc ttctcaattt taccatattt atttgaaatt ttattttatc attccatcca 240  
 actaaaaatc cctcatcacc ttctatttcc tgtctggaaa aatgctctta tcttttatta 300

gtttgttgaa tgtcaaacta tttatgtcaa taaactatta cattgettat tgtaatttat 360  
tattaaaata ttttgggtact aaacaa 386

<010> 17495  
<011> 117  
<012> 117  
<013> Glycine max  
<400> 17495

ttagagaatt attattgtta ttgaaaaata tgettcttgt agataacatg ctaccgaaga 60  
atcattatga ggaaagaag atattatgtc ctattggaat ygaataccaa aagatacatg 120  
cttgccataa cgattgtatt ttgtataggg atgagtatgc tgaattacgc aattgcctta 180  
catgtgggggt gtcattgtac aaagtcaatt ccaacgattg pagtgaacat gctagctcat 240  
acaaagatcg tccatccaaa gtgtgttggg atcttcacgt aataccaagg tttaaagcat 300  
tgtttgttaa tgcagaagac gcaaaaaacc taacatggca tgcctgatggc aggatcaaca 360  
atggattgct cctgcacctt gttgattctc ctcaatggaa aataatagat cag 413

<010> 17496  
<011> 269  
<012> DNA  
<013> Glycine max  
<400> 17496

atcatggccc tattgccacc gtcataaata taggtatttt gagaatacat cttaaagacc 60  
aatggttaac gatggctcta atgggcgggt ttgcttgaat aaataataat gagatcattg 120  
ctttagttaa tgatgcggaa aaggataggg acattgatcc acaagacgca cagcaaactc 180  
ttgaatagca aaagcttatt tgaatagggc gaaggcaaga gacaaacaat tgaagcaatc 240  
tagctcttga cgagctagga cagcataga 269

<010> 17497  
<011> 391  
<012> DNA  
<013> Glycine max

<023> unsure at all n locations  
<400> 17497

taactctcaa atccncttc atcccaggt ctnagtata agctttcctt cattanggac 60  
 aacaaacctca gacacaggtt tgacaatata tgcacatggg atcatgagac tccctccgct 120  
 caatggtgtg agatccaaag ttntaccagt aaaggcccca agaaagggtt tctcttggtt 180  
 ctctacatca tcttaccat ccccttata aagagcaggc ggtttctcat ctatcagaaa 240  
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct 300  
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct 360  
 tttgtgaaa tgggaattgca tgtgtcaaat 390

<210> 17498  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17498

gagttagagt gcacattgta ttatttattg tggagagcca tgaaagaagc aaagcaacta 60  
 gtggaaagga atgagaggaa acaatatgtc aaagtatttg attatgcaca tgaattattg 120  
 aggagcaatc ctggatcaac agttaagatc aacatagtgc caagcccaga aggtccacca 180  
 caatttcaca ggttatatat ttgtcttgct ggctgtaaga agggggtttgt tgcctggatgt 240  
 agaccattca taggtctaga tggatgtttc cttagagagt catatggagg aaacttgcct 300  
 tctgtgtgtg ggcttgatgg caataaccac atctttgtta ttgcttatng tgntgcggac 360  
 attgagaaca aagacaattg gaaatgagtt ttaactgtgt tgcataaaga tcttggggat 420  
 t 421

<210> 17499  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 17499

tagctttcag caaatccaaa cgacaataac ttttttactc agatgtttga ttgagtcctg 60  
 taatatactg agacgatcaa aatgaattt tgaggttctg agctaattca aagataata 120  
 agttttactc aagacgtttg attgagtcct gtaatatata tagatgctcg aaattcaatt 180  
 ctgaacctca gagcaaatg aaacgagaat aaatttttac tggatctct gatgagttc 240

cgtaatatat cgagacgctg taaattgaat gttgaagctc tgaccaaatt caaacgacga 300  
 taattttgta ctctgatgctc tgattgagtc ct 332

<210> 17501  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> insure at all n locations  
 <400> 17500

tgtaaatgag ctttatatac cataagttct taattattta agggacattt ggataaatac 60  
 ttttaattaag caattattta taagttttta taaaaattta agttaataat tgtcccccta 120  
 actattaaaa taagttataa aaaatcttat aaaaaataaca taaataaactt ttattagctc 180  
 gaataaaactt tatttatcaa aatagcttac cttatcagta taagtattaa ttacctctnt 240  
 cccatatttt ttaatattta aggttattac acataaacta aanaatgata tattaataac 300  
 atcgatgttt catacttgta ctaatagtaa taatgatatt aattagactc taaaattcta 360  
 aagtatcaat tattttgaag agaagatgaa aagttagaat gtctaaaaat aca 413

<210> 17501  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 17501  
 agcttgcaact caagattctc ctgacctggc acttcaaaac cttctgggtg ggtcatatag 60  
 atgtcttctct ctaaatcccc atgcaagaat gcagttataa catttaactg ctcaaagtga 120  
 agattctctc cagctgctat actcagaata actctgatgg tagtcattct tacaactgga 180  
 gagaagatct ttgtgaaatc aattccttgt ttctgctgaa accctttcac cacaaagtctc 240  
 tctttgtatc ttcttctacc gtcagattct tcttttagcc tatagaccca cctattctgt 300  
 aagctttctt ttcttcttgg aaatttagtt aaagaccacg ttttattctt ctgaagggat 360  
 gtaattctat ctttcctcgc tagctccac ttaatagtgt cattcccttg t 411

<210> 17502  
 <211> 407  
 <212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <430> 17502

agctgggatt tctcttttagt aaggaatcta tcttccctaa datagadcca aacccaatcc 60  
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt 120  
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt 180  
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt 240  
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt 300  
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt 360  
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt 407

<210> 17503  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 17503

cttggagaga acacaaagtg gtaggcctat ataagcttag tttagtgata ggggaaagga 60  
 gtaaacgtcc aatgagtttg ataaattttg cgaagaagaa ggtgtcaaca ggcagttgac 120  
 tggctggctat atacctcaac aaaaagggtg attcgaaaat aagaatcaaa ccgttatgga 180  
 gatgactagg tccatgcttt ttgagaaagg aataccaaaa taattcttgt ccgaggctgt 240  
 taatatagcc ttgtacctat tgaatagatg cccaacaaaa gtggtacgga atatgacacc 300  
 atttgaagca tggagtggaa gtgttgatgg attggcaagt gcaccaattt gtaagaaatc 360  
 gttggctaca cgaatcattg aggtggggag gactataaga catgactgat gggatgga 418

<210> 17504  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 17504

ggacctaaaa actcaagcta ggggtaaata ggaacgcaac atctccctgc atactataga 60  
 cadacacuga aatggaggct gcaaacctag taccgcaatt ccttadacca aattccacac 120  
 ttgatatac cagccacttg ggaatgactt tgtaaagcaa gcaacgctta ggacaataaa 180

gagagtgaact ctgggtggcac catttggggo gtgctttgat tcaagaacca ttggcaagac 240  
 cggtaactgga cccaatgtgc cyacaattga tctgagtctc aaggggggag ttcaatgyag 300  
 aatctatggt gccaattcaa tgytcaaggt to 332

<211> 400  
 <212> DNA  
 <213> Glycine max

<400> 17505

agcttcacaca accccaacta tagtcttagt aagctccgct gctgtctctt cggataaatg 60  
 cccaagctga ataactctat cgaaaagctc tccacttga catagtcca tcacaacgtg 120  
 gaaagccatg gcactctcat atgcaccctt gatggatata acattaggat gccagccaa 180  
 gtgggtgcatt atctgaattt ctcttctcac atctctgaca tcatcatcgg tgaagagctt 240  
 cctcttttga atagatttac aggcatactc ctgtcttgyt gccttctcca cacacaagaa 300  
 tgttgtcccg aactgaccct gtccaagttt tctcccaaga gtgaagaact ccttgaaatt 360  
 atctgtctct ctcttgaaca cagaatcaac aagaagccct 400

<210> 17506  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17506

acagcttact aaaacaggag cagacctcnn ctttatctta ttttataga tcagnaggtg 60  
 gagctcttca atactccact ataaccagac ctgaactaag ttttgcgtga aacaaagtct 120  
 ggcaattcat ggccaacctt ctggaatctc actggacagc agtgaaaaca attctcaggt 180  
 atctcaaagg ctctttacac catggcctac ttctcaaagg tgcactcct cccattccca 240  
 ttaaaggcct ttgtgatgca gactgggtgt ctgaccttga tgatcacaga tctacttcag 300  
 gagctgctat ttatttttgt cctaactctt tatcttgggt gtctaaagaa caacagattg 360  
 ttgcaagatc aagtaactgag gctgagtatc gaagccacag acaagccttc t 411

<210> 17507

<211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17507

agaatgogaa tgtatgtata catgattttg atgatgcca agaaaaatca aadaagggtt 120  
 ctccaatga taaggatttg ctccaagaat aattcaagag tgcctcaaca aadaaggctt 130  
 tgtttcaaga ttcaactaaag accaagcctt gccttaaaac aaagtgtttt caagacatgc 240  
 aaggetcttg taatcaatta ccaggaagtg taatcgatta ccagaagaca gggttgagaa 300  
 atagctgttg aaaaagggtt tgaatttgaa ttttcaacat gtaatcgatt accatattgc 360  
 tghtaatgat taccagcaac gaaactttgg aaattcaaat tcaaaagtca taacctcttc 420  
 aaataataact gtgtaatcg 439

<210> 17508  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17503

tgetaaccca tggaagctcc taatatctcc ctcaacttttt gtgggtgggcc attcttggat 60  
 ggcttggatt ttctcaaggt ccaattggac cccatttctt ccagctacaa aacctagaa 120  
 aactatatta tctacacaaa aggtacactt ctctatatatt gcatagaggg tgtttttccc 180  
 aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctaggctcc tattgtacac 240  
 taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
 cataagcctc ataaaggtgc ttgggtgcatt agtgagccca aaaggeatct ctaggcattc 360  
 atacaaacca aacttggtct tgaaagcggc tttccactca tcaactctctn tcatcttgat 420  
 atggcgataa ccactt 436

<210> 17509  
 <211> 390  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 17509

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tgaagcttat taagtatatg tatataaatg tattaacata acattaaaat actaacataa   60
tatatatat aaatratatg aatgtaaaaa aaattaatat atatatatat atatatatat   120
gagtcgaaagt ttttatadca gaaagtogaa gtatatatct tatttgatac aaactcttct   240
tttttttgc aaatccatg taataatgag aaaaatttcg atatatccaa aaacttggtc   300
ataaatatca aaattagata aattggccca caccggctta caaatgggat ggcctaaatc   360
atadcaaat tntgctttcg ccaatgatct                                     390

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<210> 17510  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17510

```

agtgaccatt tgaataactc aagagcttcc attgctcaat tgtgtgcgtc togaacatta   60
tgcgctttaa tgggacctcc gagtgaaaag gtatgacct ttgaataact caagagcttc   120
cattgttcaa tttcgagcgt ctcgatatct tatgtgcctg aatctgacct ccgtgtgaaa   180
agatatgacc atttgaattt ctcgagagct tccgttgttc aatttcgagc ggctcgatat   240
cttatgcgcc tgaatcggac ctccgagtga aaagttatga ccatttgaat aactcaagag   300
cttcacattga tcaattaaga gcgtctcaat atattatgtg cctgaatcgg acctgcgagt   360
gaaaagttat gaccatatga attgctcaag agcttccatt gtccaatntc gagcgtctcg   420
atatataatg cgcttga                                     437

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<210> 17511  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 17511

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agcttgcgtc caagggtttt tccgactatg ctcttgtgtg gtggaacaaq ctacaaaagg   60
agagagcaad aaatcaaad ccaatgggtg atgcatgga atagaacaaa aagatcatga   120

```

ggaagcggta tgtgccgggt agttactcaa gggacttgaa attcaagctc caaaaactaa 120  
 cccaaggcaa caagggggta actatggctc gatttcttaa tggatgtgct catgattcaa 240  
 gcaaatattg aagaagatga ggaggtaact atggctcgat ttcttaattg ttgactaat 360  
 gctatctctc gctatctctc gctatctctc gctatctctc gctatctctc gctatctctc

<110> 17512  
 <111> 439  
 <112> DNA  
 <113> Glycine max

<400> 17512  
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 ccgagagact tccgttcttc aatttctagc atctcgatac gctatgtgct tgaatcggac 120  
 atgcgagtg aagtttatga ccattcgaat ttctcgagag ctccctgtgt taaatttcta 180  
 ggcctctgat accctatgag cctacataga acatgcgagt gaaaagttaa gaccatttta 240  
 atttctcgag agattcogat ggtcaatttc gagcgtctcg atatgttatg tgcctgaatc 300  
 ggacatgcgc atgaaaagtt atgaaccatt taatttctcg ggagcatctg ttgttcaatt 360  
 tctagcgtct cgatactcta tgcgctgaa tcggacatgc gagtgaaaag tataaccatt 420  
 tgaatttctc gagagcttc 439

<110> 17513  
 <111> 373  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 17513

ggaccttgat ctagctttat aaatgcctat taatagacaa atgctgtttt ccgtatttat 60  
 ttgggttgaa ttcatacagg gtgacatgag actgaattat ttgtaatgaa atggaattta 120  
 aatttgaat taagaacctg ggtagaagaa gtgaaagata gatctcacta aagtgggtgag 180  
 taattttacc atcaaatata atcattcata aaatcgatat atattaattt cataactaata 240  
 atataagaa aaatacact catctatgaa taatcacact taactaagaa ggttcaaat 300  
 tatagcatta attcaataaa aaaaaataat taagggaatgt aagtataaat tattaatata 360

aaaaattcat atg

373

<210> 17514

<211> 407

<212> DNA

<213> Glycine max

<400> 17514

ttctgcttga aattgaaaac cgtactttta aaaaaattta aacgacaata ccttttaact 60  
cggatgtccg attgagccct gtaatatata gagacgctcg aaattgaaaa cggagagctct 120  
aagaaaagtc aaacgacaat aaattttgac tgggatgtcc gattgagctct cgtaatatac 180  
caagaccctc gtaattgaaa acagaacctc tgagtaaatt caaacgacaa taacttttca 240  
ctcggatttc cgattgagtc ccataggata tcgagacgct cgtaatttaa aacggaagct 300  
ctgagaaaaa tcaaacgcac ataactttta actcggatct ctgacgcagc cctttaatat 360  
atcaagacgc tcgaaattga aaaccgaagc tctaagagaa gtcaaac 407

<210> 17515

<211> 391

<212> DNA

<213> Glycine max

<400> 17515

gctgatcttt caacatcctc catcttttag aatttccaaa gcatactttc tttgcgaaat 60  
gaatatacct ttcttggatc gagaaacctc catgcccaaa aaatacttca agtcacccaa 120  
atatttaate tgaatcatta ccagttatga ggatgtcacc aacatagatc aataaggcag 180  
taaatgattt gccctttctta catgtaaaca acgaataatc tgcctttgat tgaataaatc 240  
cagcaccttg aatagttgta aagaacttgg cagaccattg gcgagagget tgttttaate 300  
catataaggg attgttgagg tgacacacaa tgttctcccg ctgtcgtgta acactaggag 360  
gaagagacat ataaatttct tcagaaagat c 391

<210> 17516

<211> 376

<212> DNA

<213> Glycine max

<400> 17516

catgtgaactg aaattttgccc aatttatatg aaataaaaata aatgcattct caagttttgt 60  
ttgttgaatg ctacaagctt tgcataaacgt ttttgcctgt ttagctctatt ctgcaaatat 120  
tagtattgat tatgtgttgg agtcattatt tgcctctgct aagccttctc cacagtcttg 180  
tgcctctgct aagccttctc cacagtcttg aagccttctc cacagtcttg 240  
tgcctctgct aagccttctc cacagtcttg aagccttctc cacagtcttg 300  
gttcaactcac attctc 376

<310> 17517  
<311> 406  
<312> DNA  
<313> Glycine max

<400> 17517  
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tttttaactg tatgtccgat cgtttccctg agtatatcga gaccctcgta attgaaacca 180  
gaagcccgta gcaaaactcaa acggcaataa attctaactc ggatgtccga atgaatccca 240  
tgatatatcg aggcgatcgt aattgaaaac agaagctatg agcaaatgca aatgacaata 300  
actttttact cggatgtcgg attgagtcct gtaatatatc gagacgctcg gaattgaaaa 360  
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<310> 17518  
<311> 434  
<312> DNA  
<313> Glycine max

<400> 17518  
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aaacttgcct tccagcatg acaagattaa aaagcctgaa gatgcttgaa cccataact 180  
ccaaattctt tcttcattgt caactctcc caatttaacc atttataacc ttgctcgagt 240  
gattgttaca tactaccaca ccaaaaagag ttcattattt tttttctaat tcaacctgaa 300

gagtagatgg aaatagaaaa atgcttatac aataagtggg attgagtgag ctactaactt 360  
aatgagaatt tctttatcca ccttggaaaag atactcaatg gaccagggat gaatacacat 420  
ggaaaagtcta tctt 434

<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17519

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tcataagttg aatagttaag ggtaggacca ctttaactttt cactaaaata agcaattgga 180  
tggccttctt gcatacaaac agccccaatc ccaacatttg aagcatcaca ctttaatttc 240  
aaagattttt gaaagtttgg caacgaaagt atgggggcat tagttagctn ttgcttaaga 300  
acattgaaag cttctctctt tttctctccc catttgaaac caacattttt cttgagcaat 360  
tcattgagag gtgtgtgcaa tgtgttaana tcttcacaa atcgtcta 408

<210> 17520  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 17520

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attgaggcaa tagacttaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180  
acagtagaaa gaatcacat agatgggagc acaacaagtg aaagcataac aatagaaaaa 240  
cctagagata gatggcttga agaggatgga agacgagtac aatacaattt aaaagccaaa 300  
aacataatta catctccctg tggaaaggat gaatatctca gggtttcaaa ttgtaagagt 360  
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<210> 17521

<211> 336  
 <212> DNA  
 <213> Glycine max

<400> 17521

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taattttttt gaagaaaaaa aaatttatatg taataaactc aaattttctc cattttaaaag 120
taagatatga atggaggact acttggagtg ggagatgaaa atagagcatg tattctcatg 240
aaacaaactga ggaggacaaa aaggtgaagc ttgcgcacac ggaatttttc gactatgctc 300
ttgtgtggtg gaacaagata caaaaggaga gagcaagata tgaagagcca atggttgata 360
catggaacga gatgaaaaag atcatg                                     386

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<210> 17522  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17522

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tactcggatg tctgattgaa tcccataata tatcgacaag ctcgaaatag aatcttgatg 180
ctctgagcaa attcaaacga caataacttt ttactogaat gtctgattga gtctgtaat 240
atctcgagac gctagaaatt gaatacggaa gctctgagca aattcaaatg acaataactt 300
tttactcgga tgtctgattg agtcccgtaa tatatcgaca cgtctgaaat tgaatgttga 360
tgccttgagg aaatacaaat gacaataact tttttctcgg atgtccgatt gagtcccgta 420
atatatcgag acgtctg                                     437

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<210> 17523  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 17523

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 actctgacat catgctgaaa ctttaagaagg ccaacaggtt tagccttctc aatgtattct 180  
 gaacaaaaat caatggcttc ttctgcaatg tacctctcaa caatagatgc tcttggatga 240  
 tcttctgcaatg tcttctgcaatg tcttctgcaatg tcttctgcaatg tcttctgcaatg 300  
 tcttctgcaatg tcttctgcaatg tcttctgcaatg tcttctgcaatg tcttctgcaatg 360  
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<210> 17524  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17524

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 ctttatagag gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc 180  
 ctctataata gccggaagtg caacaataga aaaacttaga gcagactgga ctgaggaaga 240  
 aagaagatta gtacaatata atttaaaggc caaaaatatt attacatttg ccttaggaat 300  
 agatggatac tttagggttt caaattgtaa aagtgcctag gatatgtggg atacactaca 360  
 agtaacacat gaaggcacia cagatgttaa aatatctagg ataaacactt taactcgtga 420  
 atatgaac 428

<210> 17525  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17525

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 aatcggcaat caaaaatctt gaagttcaag taggcacaact tgcaaaagcaa ctgctggaga 120  
 agtccaatgg caattttctg gctaacacag agaaaaacca caaagagaaa tctaaagtgg 180  
 taactacaat aagaaaaagg atggatggcc ttgttagtga taatttagtg gaaggtgtag 240

taaaagatat gggatgatgag aggaaagtgt angagagaga gacatagctg agaataaaga 300  
 gaaacaaata agtgttgaaa atgtagaana aaccagaaaa gtggagaana aaagaaaaac 360  
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<211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17526

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 gcagaacagt tggcgagttc gcattgatta taggaggtcg aaccaggtaa ccaaaaaaga 180  
 tcatctttcc ctgcctttca ttgatcaaat gcttgagcgc ttggctggta agtctcatta 240  
 atgctttctt gatggctttt ctggttattt acaaaatcat attgctcttg 290

<210> 17527  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 17527

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 atttacctgg gtcaacttta tcagagaaaa atcagacacc tttgaagtat tcaaggagtt 180  
 gagtctaaga ctccaaagag aaaaagactg tgtgatcaag agaatcagga gtgacctgg 240  
 cagacagttt gaaaacagca agtttactgg atactgcaca tctgaggcat cactcatgag 300  
 ctctctgcag ccattacacc acagcaaaat 330

<210> 17528  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 17528







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 gggcataacc atgttacaga aattgatgtc ttcaattatg aaggcaattc tctctctgtc 240  
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<210> 17534  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17534

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 taaatataaa atgatataaa aatgtttata tactattgtc acataaaaaat gttnttttagg 180  
 taactataat tttaaatttt tgattcttat tttttttgga aatatataat attttattaa 240  
 aaataaaaata tcagaaagga tattaaaata gttaaaagac ctataactat taagaagaga 300  
 tgaataataa agtggattaa agcaagaata aaaatgaaaa gaaagaataa tattactaat 360  
 acatgctttt aacgagttat aagttaac 388

<210> 17535  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 17535

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 tgaatcatct atcttactca ccaagcaact tagctcatga aaaactgcat gctcaacatt 180  
 cagcatataa atgttaccta ttctcttacc aatgtggata acctttatggg atatggcttc 240  
 acttataaga carcaatcta ttttgaattc aatcttgaaa cctttatcac aaagtgcact 300  
 aatacttaga acggtatgct ttaattcatt caaaattaac acataattca tctaaagttt 360

<210> 17536  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17536

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 ttcagagggt ttgacttcca atattaattt gacctcaca atggaaggat tggcccaagc 240  
 ttattgatgc aactctcca aggaggggac ccatcaccat agccatgact aggagactcc 300  
 aggaagattg ggttagggat gcaagagaag gccctaaggc tctcatgagc cttangatag 360  
 atntggggcc catgggctaa gtatgaacc acctatcttt 400

<210> 17537  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 17537

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 cctcttaagt gcagatgtcc aaatctttga tgcctatctc tgaactcacc ttctttggag 180  
 gatagacatg tggaggagta actgggtttc tgagggtgct ataggttagc gatgtccttt 240  
 gatctgctgc cctttattag aacttcacac ttctcatttg tcaactaagc ttctgacctt 300  
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 gt 362

<210> 17538  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17538

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 ggggtgtttgg atgaacatta atataattga ttttgaatga aattaatttt ataaaattga 240  
 attaaaattg tgttnttata catatatata tgacaaatac taattacgtt gttcatgato 360  
 ttttaattt taccataggt 380

<210> 17539  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17539

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 gcagccctac aaaagagttc acccatcta gaagcttgag gcaaggagac cccctaaccc 180  
 ctttactctt taacatagtt gggaaagcat ttcaggccta atgaaggaag cagtccggaa 240  
 gaatctctat accactacag gttgcgatga aatatgagcc cacaatatto tgccaaatgc 300

<210> 17540  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17540

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 taatttgata aaatttatta acttctaaaa tgatatacag atacacgtgt atttaggaat 180  
 gaaaacataa tatacatgtt aattcataa ataaagaaaa gttataatat tttaaaatta 240  
 gcataataaa aatacagacg tacaagtggt tgtattcttg ctagnatat ataaattaaa 300  
 ttattaaata tanaacacat taatttttaa tcaacatact ctattagaat aaatgacata 360  
 taatgggttt caatggtaat ttgggtgttt tgttttaatt tgttatatt tctaa 415

<210> 17541  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 17541  
 17541

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 gtagtcagtg aaaacaaagg gcatntaaat ttgctgaaa cagatttcct gtagcatatg 180  
 cagggcttct tggagtgtat gtctgaatgt tgaaatttaa ttaaaaggtt agtcaataat 240  
 ccagaaacaa atgatggaag tcaagtttta ttatcttcta aagttgaagg ctatcacatg 300  
 atgaagcana aagatggatg atgagtgaag atgcaatgta cctaatatga aatttactgt 360  
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<210> 17542  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 17542

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 ttcccttggg acaatgactt ccttgactca cctcgacttc tctcttactg gattcatggg 180  
 gaagattcca tctcagattg ggaatctctc caatttgggc tatcttgacc tcggaggtta 240  
 ttctgtcgag cctatgttag ctgacaatgt agaatgggta tcaagtatgt ggaagcttga 300  
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 atctcttctt tctttgacct acct 384

<210> 17543  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
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 atggacaagt cctccacaac aacaacaacc tatccctcat ttccagaatg ctgctagtct 180  
 .....  
 aataaagaa actgaggctc cctccacaac ttcccttagaa gagttagtga agaaaaggc 240  
 tatccagaat atgcaatntc agcaagagac aagagccttc attcanagtc tgac 304

<210> 17544  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17544

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 atataaatat ttattttttac gataaataca tttaaaaatt aattatgaaa agaatcaagt 180  
 ccatcttaca catattatct caaaattgaa taattatata ttcatattta acatattttac 240  
 attctttttt aatttatata ttccatataa gtattccatg actattactg cttagtaaaa 300  
 aattaaatta taataaatat cattaggcta agtattttta atgataacat aggtttaatt 360  
 acaattttta ataatcatct tctttgatnt aatataatat atatatatat cattgatatt 420  
 ttgacatg 428

<210> 17545  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17545

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 atgtccagat tgcactatc ggtacaaaa ttcgaaaatc tgaagatgaa ggagggaagag 180  
 tgtattcatg acttccacat gaacattctt gaaattggca atgcttgcaac tgccttggga 240

gaaaggatga cagacgaaaa gctgggtgaga aagatcctca gatctttgco taagagattt 300  
 gacatgaaaag tcaatgcaat agaggaggco caagacattt gcaacatgag agtagatgaa 360  
 ctcaattgggtt cctcttcaac ctttgagcta ggactctcgy ataggact 408

<211> 44  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17546

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 tcatgacctt taacactgta accgctgaga tcccatatg ctggaaaagtc attaatggta 180  
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 cttaaggagc catatggatt cat 443

<210> 17547  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17547

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 taacataaaa aaaaagggtt aatataatg atatatataa tattttttta taaaaatata 180  
 tataacaata tcaagtaaaa aacattatta totaactaat tatatcattt atataaatat 240  
 aaaaaaataa tataaatatt ttctctgtaa ttataaaaaa agacaaaactt gtatttaaat 300  
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 tgggtgaagt actaatgaga taate 385



<210> 17548  
 <211> 372  
 <212> DNA  
 <213> Glycine max

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<210> 17549  
 <211> 215  
 <212> DNA  
 <213> Glycine max

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 aaaaatcctt ttcaagatgg agagattgat gagga 215

<210> 17550  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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<210> 17551

<211> 344  
 <212> DNA  
 <213> Glycine max

<400> 17551

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 gaatgaatct actttctttg cctgtcggct tctcataaaa ctcttggaag tagccttttt 300  
 cttggggtaa gcaaccatt taagaagatt atcaatgtta tccaagctag acaaattggt 360  
 ggcaggagcc actgttctag acact 385

<210> 17552  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17552

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 acgtttgaga aggtaaagtt cgttcataac acatacagtg gggagagtgt tgtcatgata 240  
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 agtaactaat cagtgaatt cctgaaatta caagattcag ttca 344

<210> 17553

<211> 375  
 <212> DNA  
 <213> Glycine max  
  
 <400> 17553  
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 ctactagaaa tcttctctct ccttctctct atagctctct tcttctctct gaaactgaa 180  
 aataacttct cgttctgttc atcagcaagg gaggcagata taatcacttg aaaactcttg 240  
 taatcattca agtaagggtt ttttaaattt gatggcagag gcttcaattc tgggtgtggtc 300  
 cgtctggacag tggtagaagg agatggtttc tcagccctta cctcataaag aaagtcagag 360  
 ctatgtgtac tctct 375

<210> 17554  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
  
 <400> 17554  
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 tcttgcatttg tcaacttgtc tttcaatata ttaaaagttg tctcatgcac atcagtcac 180  
 ttgaacacca cattcttttt tacaagttcg tttaaaggtg cagcaagtga actaaagctt 240  
 ttcataaact tttataaaa acttgctaaa caatgaaaag atcttacctc attagcattc 300  
 ctaggtacag gccattcctt aatttccttt accttttctt catcaaacct tatttccttt 360  
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<210> 17555  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
  
 <400> 17555  
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atctttactta ttccaattat caetgetett ttcccttga ttttcacacc gggcctaagt 180  
 aacaactcaa tgcagccctt gggagcacia ggaacaaaga agggctttct tctcttatg 240  
 caatttcaat tctttagcaa taacttaatt ttgtagattt tttaaaaata aattcaatat 300  
 ttggtataat ttttacttat tgcagcttct tttaagtaet aattcaattc 360

<210> 17556  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17556

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 tatggatctg ctcaaggctt tgaattttcc atatgccaaag tggaaattct cctgtcaaat 180  
 ugttttcaca caatctaaga tcacycaatt tactcaagtt tcttaattcg cttggaattc 240  
 ctctttcaag ttgattgtaa ttcaaactcc actctttcag tgattcgcaa ttaccaatct 300  
 gtggatgtat ttccctgac aataggttct ccggaatgaa taacat 346

<210> 17557  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 17557

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 tttttactcg gatgtctgat tgagctcctg aatagaacga gacgctcgaa attgaatgtt 180  
 gaagctctga gccaaattcaa acgacaacaa ctttttaacty ggatgtctga ttgcgtcccg 240  
 taacatctcg agacgctcga aattgaatgt agaagctctg agacaattca aacgacaata 300  
 aatttttact cggatgtctg atgagctctc gtaatatatac gagacgctcg 360

<210> 17558  
 <211> 324  
 <212> DNA  
 <213> Glycine max



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 ggtttttaca ccactaggca actgtaagag atcccagact tggttaaaag ccataaaaac 360  
 atctcatnot tcatgggata tgtcaacaag ttgattcttt agaactcatg ggccctgtgaa 420

<210> 17561  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17561

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 aagttgttga atattcacta tgaggtgaag aaaatactat gtccatttag tatggagtac 180  
 cagaaaatac atgcatgcct taatgattgg ataccaaaaa atgagtttgc agaaatgcat 240  
 aagtgcctca catgtggggg atcgtgatac aaagtgaatg atgatgacta cagtaatgat 300  
 gtaagcacac acaataacca tccaacanag gtgtgttgcct atcttccaat aattccaatg 360  
 cttaagtgat tctttgctaa tggagacaac a 391

<210> 17562  
 <211> 167  
 <212> DNA  
 <213> Glycine max

<400> 17562

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 ttggtatggg aaatagttgg ctgaaatgca caaatgcccc atatgctggg tatcacggga 120  
 cacaatgaaa gatgatgaat gtaatgatga tgcaaccaca tgcctgta 167

<210> 17563  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 17563

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tgggttccct agacaaaatc aaattgatgg tattaaaactc aacattccctc cctttaaagg 180  
aagaaatgc tttttttttt acttggagc tttttttttt atttttttt tttttttttt 240  
tattttttttt gagggagagc aaagggtgaa gattgagc caggaggttt tggattatgc 300  
tattttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
tacttgggag gagatgaaaa ggatcatg 396

<210> 17564  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 17564  
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tctatgccat atgtagcaaa gtcgttgacc ctgttaagtt tgatgagctg aaaaatgagg 180  
ccgcaattat actatgccag ttggagatgt atttttccccc tgatttcttt gacatcatga 240  
ttcaactgat tgtgcactcg gtcagagaaa tcaaatgttg tagtccattt tatttgtggc 300  
ggatgcaccc ggttgagcga tacatgaaga tcttaaaaacg gtatacaaag aatatatata 360  
gcccagaagc atctattggt gagaggtaca atgc 394

<210> 17565  
<211> 327  
<212> DNA  
<213> Glycine max

<220> unsure at all n locations  
<400> 17565

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accttaacct gagatggctc agccctcagc aacaaacaaa gcagtctgct ccttccttcc 180  
aaaatgttc tggcccaagc agaccatata ttccttcaac aatccacaaa cagctacaa 240  
cccacaaaac gccaacagtc gaggcctctc cacaacctta cctcgaaaac ttgtgagaca 300

aatgactatg cagaacatgc aatttca

327

<210> 17566

<211> 372

<212> DNA

<213> Glycine max

<400> 17566

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tagaacaat tatgaaaaag catatgaaag gaagtatgat aaatctaata ttgaatgttt 180

taattgcat aaatatggcc attactcttg ggagtgtaga acaaatgttg aagagaaggt 240

caatcttggt gatgataaag aagaagttga agagtcaaca ctactactat caactaataa 300

tggtgagaag gaagacaaat gcttatggtc tcttgacaat ggagcaagca atcacatgtg 360

tggtgcaaa ga 372

<210> 17567

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17567

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tagacttaag actctccac ttcagaacaa cttctatctt aaaagggctc acaactatac 120

ccccgtgaga tatcatatgc cctatgaaac taactttctc taacccaaat tcacacttgg 180

acaacttaac ataaagctgt tggttcctaa gggatatgcyg cacaatcctt aagtgcctct 240

cgtgcctctc atgtttctca tgttctctc taacctgacc tanagtctat cttgctaaac 300

acacaagctc ctaccagctg gtcagaagg tcctctatct tangcanagg gtacttattc 360

tttatctgtc acctatttca actga 385

<210> 17568

<211> 378

<212> DNA

<213> Glycine max



<223> unsure at all n locations  
<400> 17568

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agagccaaaa gattagtatc taacaaaggc taaaattaaa gtatgactaa gttttagact 240  
ttggattagt ctctaatcct ctccaaagat cctaatcaca gtggttaccg aaaagaacaa 300  
gtttaaagtc aaagccataa cacactctct ctgctagtct atctccatt acatcaacac 360  
cctcaaatgt caacatgg 378

<210> 17569  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17569

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atggtaaccag gccaatgtac aacagatatg ttgaagtttc tctgttcttc ctgataaaac 180  
actgtatttg agaatcacga ggaccangct attcatgcac aaaagagaaa cataacataa 240  
gaaacagaat acctaaagg gaaaaaaaaga taaaagatta ggcaacacaa gaggtgaaga 300  
atttatcacc tgcttcaatg aaatgggaaa tgtgagcctt ncacattgtt caggagtctt 360  
aacaatctct ttgtaac 378

<210> 17570  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 17570

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acctcgtttg gacaacgaac aggttttgaa aatagtgcgt agcacacaa actatgaaca 120  
cagggaaaagg cattgtcttg aggaacctcc taactgcctt gtgcacatcc cttaaaggta 180

caaaaacaccc atcgagtggo ctagcagcag agataaggac attcttttatt ttaattttatc 240  
ggcaaatggtt aattggttatg gggaaaaaatt aaactttacca tctttccctt gggtctctctt 300  
ctgcactaag ccactttata gttataactc acatgtacac acacttagtc ggcccttttat 360  
tatttcaat caaatattt tctgtctctt tcttttatt atgtctcttc cttttttttt

<210> 17571  
<211> 433  
<212> DNA  
<213> Glycine max

<23> unsure at all n locations  
<400> 17571

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acctagtacc attgcataac ccttggtgatt gatacatggt ccttaaaaggc attattgggg 180  
taaccacctt tagttntatc ttatgattag gaagacccaaa tgttctcaaa ctattgagaa 240  
attcaactgtt gaccacttca agtgcatttc attcaaccat ttttgacttg tcaattgaat 300  
aagaacttag atattccctt tgatcacctg aaaacaattc attaataaaa acattgtaga 360  
atcaatatta attattaaat caattgatta tttgtgagat acctggatta aagaaaaaca 420  
taatcttatt tga 433

<210> 17572  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 17572

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ctcctccata tcttccactt caaagtctct agagagaaat ttcttagtct catgaagaag 120  
accaagatcg ttagttgcaa gcaagatata atccatatac agaattagaa aataacctta 180  
ctccactga ccttcagata catataccga taatagtat tttcctttaa tctaaaggaa 240  
acaatgggat caataaactt caaataccat tggcgggaag tttgctttta gactgtatat 300  
ggatttcttt agtttgcaca ccagtgttct ctctccttct actgagaacc ccatttggtg 360

gtccatataa acattatctt cctaactctt atttagaaaag gcagttttca catcatct 419

<210> 17573

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17573

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ctcgtcgggt gttcaacctt aagatgggag aaggtatctt tataactaat catattaatg 120

actttaatat tattcttgcc cagttgaagt cygtgcagat caaatttgag gatgaggtga 180

aggaattgat tctattgtca tcaactatcg atagtgggt tgcgaattgt actgcagtta 240

gtagtcttac aagagagaa acattanaga ttagtgcacat tegtgcattg actttaagtg 300

agaggtctg caagagagat ttangagaat cttctagtc tgtttccaat ttagcattga 360

ataactga 367

<210> 17574

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17574

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tgtgatcacc tttctctctg tcattgaagg tgcacttga gctgtcaagt ccctccacct 120

ctggggcgtat tcttgaatg actcatgctt tttttacac atgttttga gtcgggttct 180

atccggagac gtatcataat tgtactgata ttgcctaacy aaggcaacca ttangtctt 240

ccaadaatat actcgggaag gttccaagtt agtgcatac cctaatttctg tccggggatt 300

attacttgac gacatgcaac ctctgatttg tccgttcaag ataacttgga ccttttctg 360

cacaataagt aagtcttgag acgcaccgga agtcaaaagga agcanggtta tgcgatccgt 420

gaaattccgt aatgtggggg aaacraaaaag 480

<210> 17575

<211> 363

<112> DNA  
 <113> Glycine max  
 <400> 17575  
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 ttaaatattg agcactcttc gataaattac aacactctgt cgggcacccg 180  
 tttagagctc tagctctaat tttagagctc tagctctaat tttagagctc tagctctaat 240  
 tttagagctc tagctctaat tttagagctc tagctctaat tttagagctc tagctctaat 300  
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 405 363

<110> 17576  
 <111> 387  
 <112> DNA  
 <113> Glycine max  
 <123> unsure at all n locations  
 <400> 17576  
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 atcgagacac ttgaaattga aaacgaaaac ttgtagcaag tgccctaccg aatcactttt 120  
 aaatcgctgc gaaataaatt gacatgctcc aatttgaaaa agaaagtcca tagcaaatc 180  
 aaacgacaat aactttttac acggatgtcc gattgagctc cgtaatatat cgggatgtcc 240  
 caaattgaaa acggaagccc ctagcanatt caaacgacaa taacttttta ctcagatgtc 300  
 ctagagaggt ttgtaatat ttgagacact gcannatgaa aacagaagct cgaatcanat 360  
 tcaaacgaca atactntttt tactcga 387

<110> 17577  
 <111> 376  
 <112> DNA  
 <113> Glycine max  
 <400> 17577  
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tgggtgttct agacaaaaac gaattgatgg tattaaactc aacattctct cattttaaagg 180  
 aaagaatgat cgggaggcct acgttgagtg ggagatgaaa atagagcatg ttttctcatg 240  
 caaacaactat gaggaggaac agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300  
 tttgttgtt ttttctcagg tacaaraaga gacacaaagc atctcctagt ctttgtttga 360

<210> 17578  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17578

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 ttttactcgg gatgtctgat tgagtcctgt aatatatcga gacgctcgaa attgaatgtt 180  
 gaactctetga ccaaatcaaa acgacaatag ctttttactg ggatgtctga ttgagtccca 240  
 taacatatcg agacgctcga aattgaatgt tgaacctctg agccaattca aaogacaata 300  
 acgttttact cggatgtctg attgagtcgc gtaatatatc gagacgctcg anattgatgt 360  
 tgaacctctga g 371

<210> 17579  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17579

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 attacgggac tcaatccgat atccgagtaa aacgttattg tcgtttgaat ttgctcaaa 180  
 gtccaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240  
 aaaagttatt gtctgttgaa ttggctcaaa ggctcaacat tcaatttcga cgcctctgat 300  
 atgttacgag attcaatcag acatcccaut aaaaagctat tgccttttga aattgcctag 360

agattcaaca ntcaatttcg agggctctga ta

392

<210> 17580  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 17580

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caccacagta gaaagagttt caatagatgg tagttcatca agtgaaagca taaccataga 180  
aaaaacctaga gatagatggg ctgaagagga tagaanacga gtacaataga acctataagg 240  
caaaaacata ataacatctg ccttaggaat ggatgaatat ttcagagttt caaattgcac 300  
gagtgcctaag gaaatgtggg acactcttcg attaacacat gaacgaacta cagatgttaa 360  
aagatctacg ataaatgca 379

<210> 17581  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 17581

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gacctgatgc caactgataa gggtagatac cctgaggtat ctgtgaagge tatectgggg 180  
aatcaggcct tgaggactag aatctctcaa agcacgagta ttaatccaat gtggaatgag 240  
gatctgatgt ttgtggtggc cgaacagttc gaggagccgc tgattttgag tgtggaggat 300  
agaagtgggc ctaacaacga tgaatgttg gggag 335

<210> 17582  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 17582

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ctattgatcc cccatgtgga aacattactc gatccattcg ttggggggatg aaagggtgat 120  
 gctacttttc ctggacatg atagcgctgg acgacatttg agagatgato gtabacaaat 180  
 ggttacctgc atgactaat ccagagctta ggcctccac acctagaaga tatgtctctc 240  
 atgagacata gtcacat 317

<210> 17583  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17583

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 tccaacctta taggtatacc agacgcatat taatgtttat tatttattac aacttatgag 180  
 gatatatgtc atagctatta tatatatata tatatatata tatatatcat tggagatcac 240  
 aagcatatto cagataacga aaagagaaca tatacaaata taaacacatg catatattaa 300  
 tattatgggt ctgctaatc ataatatcta ttgtataaat gatngaaaag tat 353

<210> 17584  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 17584

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 gcttgatggt gagaaagatg tccaacatc tccggccca aatgctgaag cctcccttc 120  
 acccagttaa caggaatcaa cagaagaaga ggtcaagcc tcaaaggaga cctctgcacc 180  
 accggcacca gaacctgctc caggtgacct catgacctg gaagaagtag aatctgatga 240  
 agaaccatc gccaacaggt tggcaccgg cattggcgaa agacttcaaa acagatagga 300  
 aaaaacccct cttaaagagt ctggaagaat caagactatg ccacadaaga adagactcc 360  
 aatcaactct gccacacca gaagaagcaa gg 392

<210> 17585  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> nucleotide sequence

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tcaggcaagc aaaggatggt gttaaaggca taaagaagcg gattggaagt aaaaattcaa   180
aagtcacaat tcttgcaact actgtaagca aaatagtcct ggcatacaac cttttttctc   240
ttttaaactct gatgtcagta ttgctctaga ttcttttggc ctcaagcatg ttgctgttaa   300
ttgcattttt caaatttcat ttgggctctc caaacttcac attgttgact cgttcatttt   360
tgaatggctt tgttgaatga cgagcatgtt ta                                     392
  
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<210> 17586  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 17586

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ttacgagctt ctgttagtgt tatgcctctg tctattggta attctctatc tctaggtccc   180
ttgcagtcac ctgatgtgat aattcattta gctaatagaa gtgctgctta tccctgttgg   240
ttcatagaag atgtcttagc tagagttggg gaactgatct tccctcgtga tatttatatt   300
gtgaatatgg aagatggatt ttctcaagga tcagatccca tgattctagg cagacccttt   360
at                                                                                   362
  
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<210> 17587  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 17587

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taacgaccaa gaaaaaattg cttttacatg cctttttggt gtcttttgctt acagaacgat 120  
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 aatgcattga ggtgttgat ataatttttc agtcttgcat ccttccttca actgttgctt 240  
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 <213> Glycine max

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 ttgccccttt tctgcaacaa tctgaaccaa ttgaacagcc tgaagcttat gctgcaaaca 180  
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 tctccagcaa caggtacaat cccaagtga ggaatcatcc caaccttaga tggttgaatc 300  
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 catacgtt 368

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 <213> Glycine max

<223> unsure at all n locations  
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 aggcacacaag ggggttagg agtatttcaa ggaaatggat gtgctcaga ttaagcaaaa 240  
 tattgaagaa gatgaggaag taactatccc tcatatttct aatgtttga ct'aagatat 300

oogtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360  
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 <L13> Glycine max

<L23> unsure at all n locations

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 accaagacta gaatcccatt ggtagagtay atctgagga atttttatga aaccactctt 180  
 tgaagcagct tctcgcgcaa cagcctcttc attaagaatc aatgcaagaa catgaaatag 240  
 agcagcaagc atggtattat ttccgttacc agaaatcaat ccacattctt tgatccggtc 300  
 acaataaaaa gtgagaacat tagatctatt ttgacctca ttctgagagc atatcatcat 360  
 gagcaagtca cggacag 377

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 aggatcttta ttaaaggatt ttaatactac ttttgtgact ctcaattcta aatctattac 180  
 tghtaagact gtcaaggatt acaggcttat tgcagtttgc tctacttttt ataaagtgat 240  
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 agcttatga 429

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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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cttttttata cacacataaa attntgacaa taaaagaata tttatacaact ttcttttgcg 360  
catgatggtt gattcttata t 381

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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17593

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tgatcacatt cctctaaaat gtgacaacac aagtgcgac aacctaaaaa aaaaccttgt 180  
catgcattct aggaactaaac acatagagat aaggcattat tttcttagaa atcatgtgtt 240  
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taaacctctt gctagagata ggttcttttt cattagaaat gaactaggca tattagatgc 360  
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aatttctttn tgtttagttt gtgtcacaag 450

<210> 17594  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 17594

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acaacttctt	tcttgaacaa	aagttgagag	aggaaatggt	gataaaaactc	ttttcattaa	120
gaagtcctct	cataacattt	tacttgtgca	agttttatatg	gatgacatca	tttttggttc	180
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attctcttat	gaagtaaaat	actacaagga	acttttcana	cagtttgaga	tggaacatag	360
caaggaggct	acaactcata	tagctactaa	ttgctacct			399

agcttctaga	ttttcgatat	gaaaaaatgt	agtttctatgt	tctcttccaat	taacgcataa	60
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ccacaaaaat	ttagtttagg	acaataaaaa	aataaaactta	agcatacatg	ataaaattgta	180
atataactat	tttgcacaaa	taagtctgtat	gatgatagta	ggaatgcata	gacatataat	240
acaaaaataa	taaaattact	ctcatgaaac	ttttattaca	cacaatcacc	aacraaatat	300

atctcaacac cataagagat aatctagatg aatttttaat accatagacg agagacttgt 360  
 tttaaagcata aatgaattt 379

<210> 17597  
 <211> \*\*\*  
 <212> DNA

<223> unsure at all n locations  
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 gaaaccagag aggacttgga tttaactcta agtctgctgg cagaacaacc atgacagaat 180  
 ttgttcttgc caaaaacagc actggagcca cgtgtcaca acatcggctc cgacatcatg 240  
 gaatgcagca gaaaaggagc aaaagaaaga agtggagggtg tcaactactgt ggcaggtatg 300  
 gtcacataaa gcccttttgc tatcatttac atggccatcc acatcatgga actcanagta 360  
 gcagcagtgg aaggaagatg atgtgggt 388

<210> 17598  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17598

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 aaaaatgaa gatgcagatg gtttggtttc ctaccattga acaattcata tgaagttttc 180  
 tttaagatgg gtcttattaa agccttattc atgatataac atgcagttat aacggcttca 240  
 gcccgaaaat aatttggaa aggagtatca ttcaataagg ttctagcaat ttcttccaaa 300  
 gacctatttg tcttttcaat aactccattt tgttgagggg ttcttgggtgc ataaaagata 360  
 tcttcaatgc catgcttatt acaaaaataa tcaaatctct tattttcaaa ctacccccca 420  
 tgaatcactcc caatagatat aat 443

<210> 17599

<211> 385  
 <212> DNA  
 <213> Glycine max

<400> 17599

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 ttaattggga aaagggggag cctgtaattg tcagcaatgt gcttgaatgt acatctgggt 240  
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 ggcacattt ggaggagaaa abaattgatt gcttagattg gactgaggtt tgcttaattt 360  
 gcaattcttt aactctattg accat 385

<210> 17600  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17600

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 cttgtttattg aatagcatgt tcattggtatt tactatgaat atttttgcaa caggttacta 240  
 tttttttgta tgaggttctt agattatacc ctccaggagt tgggtgttctt cgaaaagtta 300  
 tcaagatgtt gaaacttgga aacctatcat ttcttgatgg agtggagatt ttcatatcaa 360  
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<210> 17601  
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 <212> DNA  
 <213> Glycine max

<400> 17601

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caatcaatct ctatgtgttt agttctctca tgaaaaacaa gatttgaagc aatgtgaaga 180  
 gtagctgat taccacaata taacttcatt tgtccaattt cacaaaaatct caactcttgg 240  
 agaagttgct taaccacat aagctcacat gtaaccatag ccatagatcg atattcagct 300  
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<210> 17602  
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 <212> DNA  
 <213> Glycine max

<400> 17602  
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 agggcttcaa cattcaattt tgagcgtctc gatatatgac gagactcaat cagacatccg 240  
 cgtaaaaagt tattgtcgtt tgaattggct cagaggttaa acattcaatt tcgagcgtct 300  
 cgatatgtta cgggaactca tcagaagctc gagtaaaaag ctattgtcgt ttgaatttgc 360  
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<210> 17603  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 taactggatg tctgattgtg tcccttcata tctcgagaca ctcgaaattg aatgttgaag 180  
 ctctgagcca attcaaacga caataaattt ttaaccagat gtctgattga gtcccgtaat 240  
 atctcgagac tctcgaaatt gaatgttgaa cctctgagcc aattcaaacg acaataactn 300  
 ttaactogga tctctgattg agtcccataa catatcgaga cgtctgaaat tgaatgttga 360

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398

<210> 17604  
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<212> DNA  
<213> Glycine max

<400> 17604

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aaaatgcctt gtctctgaat gcagagagat attagtattc tcagacacaa ttaagtgcac 300  
gaactgcaca gtagagcatt gtttaaagca tcggtttgga cctgatcata aatgtctctg 360  
tcccatatat gtggaatcaa gtttt 385

<210> 17605  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 17605

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ttgtccatgt tactgagtc ttcataaaaa tattatagaa gaagctgtct cgaaatctga 240  
tggtgagggc aactggcaca tagtttttta aatctctctt agtattcata taggctctct 300  
ccactgagtt gtctaatacc tgaaatatcc tttttgatgg ttgtggtctt ggaagcacgg 360  
aaatgttttt tctaaagagtc ctctcttgag gtcctcttaa ctctgtatgg acctt 415

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<212> DNA  
<213> Glycine max

<400> 17606



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accatctgat cttagctaca atgtctggtg tcaattgttg attgaagttc cctgttcaac 180  
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aacatggcgc ctaccttact gctctatcc 389

<210> 17607  
<211> 323  
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<400> 17607  
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atatattaca ggactcaatc ctacatccga gtaaaaagtt attgocgctt gaattggctc 180  
agaggttcaa aattcaattg ctagcgtctc gatatatttc gggactcaat catacatccg 240  
agtaaaaagt tattgcgctt tgaattggct cataggttca acattcaatt tccagcgtct 300  
cgatatatgt ggggtctcga tccgacat 328

<210> 17603  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17603

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gtccgattca gtgacgtaat atctcgggac gctcgaaatt caatgttgaa cctctcagcc 180  
aactcagacg accataactt ttactcggaa tctctgattg agtcccgat tatctcagaa 240  
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atgtctgatt gagtccata atatctgag acgcttgaat tgaatgttga acctctgagc 360  
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<210> 17609

<211> 393  
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<400> 17610

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 aaacacgaat gccaaacaga tataaatttg aatgaggaat gttagagggtc gtgtgaagca 240  
 acggtcgaat tttccttggc tcagtagtga acgtgctatt aatgttaagt gattcgtttg 300  
 ggcacgttca gattgctgta gttgctataa ttcctctagc acacaaatgc ccagcttgcc 360  
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<210> 17610

<211> 393  
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<400> 17610

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 aaaaccttcc cattcccaag ctccacttgt gttggaaagc ttatgtctgt gttagctaga 180  
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 cctgctgagc aagaaacaaa aactccttta tgcgttgctc cgaacgaggc tatggcgatg 300  
 ctgtcattgt aataaggtct tgcattgcca cctaattgaga gtgacaacac atcaacacca 360  
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<210> 17611

<211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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...
aaatataat ttccattgat gattgaggtt tattagagaa caagagttat atttataaa   30
aggtagaatt ttttttatto gagaacaaca caataaatga aaatatgttg atcaactaaat  360
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acc                                                    483
  
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<210> 17612  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17612

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tatttaatcg gatgtctgat tgagtccegt aatatatcga gagctcgaaa attgaatgtt  180
gaagcttttag gcaaattcaa acgacaataa ctttatactc ggatgtctaa ttgagtcceg  240
taatatatcg agacgctcga aattgaatgt tgaacctatg agccaattca aacgacaata  300
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<210> 17613  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 17613

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tactttcttca tatactcagc ttttaacctga gcctccttat gcttaatcat agaatgttc 130  
 ggcattatct tataatcaag aggagtcaaa tgcattgatg catacaatat ctcaaatggc 240  
 gaacaattaa ttgtgctatg gacagccga ttatatcaaa ctcaaatga ggcaaacaaag 300  
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<210> 17614  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<200> 17614  
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 ctaacaaggc tgccttcaat gataagcatt tgccttcaaga ataattcaag attgcttcaa 180  
 caaacaaaggc ctgttttcaa gattcactaa agaccaaggc ttgccttcaa acaaatgtgt 240  
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 cagggttgag aaatagctgt tgaaaaaggc ttgaatttg aattttcaac atgtaatgga 360  
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<210> 17615  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 cctatactac tagaatggcc aaatatacag gcttagacga aggaaaaacc tattcttaata 240  
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 atgccttacc ggggtaggat tgcctcaagt agc 393

<210> 17616  
 <211> 420  
 <212> DNA  
 <213> Glycine max

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 tactctgaac aaaacatctt caattactcc atatggcttg gtaatggagt agtcagctaa 240  
 tctgaaagtc atttcagtggt gcattatttc caactctccc aatctctctg acatgtagag 300  
 tgacatcaaa ttgatactga ctcccaggtc aataagagct tttcccacat tgactctctc 360  
 aattgaacaa ggaatagtta cactctgagg attatttatgc ttgggtggaa ggatcttcta 420

<210> 17617  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17617

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 agggtagatt ttgggcccac gggctaagta cgagcccact tatctttgta aatattagat 180  
 taaggtttca ttatttttgg gcttctgatt tagggctcca taatgtaggt agggtaacct 240  
 agaaatatag gatttttcag ccttctgatt ttagggcacc tagactagtt tttgtattag 300  
 aggtagtttt gtaattccac atgcactaag tggatatttg atgtgtgtgg gtggaaataa 360  
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<210> 17618  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17618

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 taattatgac ctctcaagca atagatacaa tccagggttg aggaatcata caaatctgag 120  
 atggacaagt cctccacaac aacaacaacc tatccctcca ttccagaatg ctgctgggtcc 180  
 . . . . .  
 acaacaagca actgagggtc ctctggaac ttccttagat gagctagtg gacaatgac 240  
 tatccagat atgcaatttc agcaaaagac aagagccttc attccaggtc caacaattca 300  
 gatgggycag atgaactact agat 334

<210> 17619  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 17619  
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 actatacagc ttgggggtcaa caagaatggc ctttccaata ttacagggat ggtaatatct 120  
 tgggagatat ccattaccac acagtctgtc gggaagataa catgttctac tctgaccaaa 180  
 acattctcaa ttactccata tggcttggtt atggagtagt gcgctaattc gtaagtcatt 240  
 ccagtgggga ttatctctta ctttgagcat cttctgcaca tggtagagaga catctaatag 300  
 atactgactc ctaaggcaat aaaagctgtt ccccttgac ttctccatat gaacaacgag 360  
 tactaagact ctgaggatta tta 383

<210> 17620  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 17620  
 agtttgcaat atccagtgat ggaatgaatc catatggcaa ttttaagcaat taacacaatt 60  
 cagtgccaat tctactagta atttacaatt ttctctcttg gttgtccatg cagtgaaaat 120  
 acatgaggtt gtcattgat ataccaggcc caacacaccc aagaaaagac atgatgttt 180  
 atctaagtc atgattcaa ggcctgagaa agctgtggga ccagggggtt ttagtgtttg 240  
 atgggtttca gaatgagact ttctaatcc atgcaatgct tttttgtaca attaatgact 300

ttccagcata taggaatttg agcagttaca gtgttaaggg tcatcatgca tgcccccatt 360  
gtgaagaaga cataagctac a 381

<211> 17621  
<212> DNA  
<213> Glycine max

<400> 17621  
cacctttctaa accttatata agaattaaag cctgatacca cctgttagac aagtggcctc 60  
agatatctta agaagggggg attgaattaa gatattccaa actacttgcc ctaattaaaa 120  
acctatttca ctttttattc aagttatgaa ttcccttaac gacaatcttc ttaaattatta 180  
attcaataaa cataatttga atatgaatat aaagcaataa taaataaagg agattaaggg 240  
aagagaaaat gcaaacctag ttttatactg gtttggccac acccttgtgc ctacgtccag 300  
tccccagca acccgcttga gagttccact atcttgtaaa ttccctttac aagtgtctaa 360  
acacgcaagg acaatccttc ctttgtgtgt agaattcctt ta 402

<210> 17622  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 17622  
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agctggggag gctgagagat ggttgcattc attcaagggc aacagtggaa agacctggga 120  
tgaagttgat gacaagticc taaaaaata ttcccacag tctataaaaa tattttgagt 180  
gaggcattac aaagatttcg tatcttgcctg tggaaaactc ccaactcatgg ttttcagag 240  
ctatcacagt tggacatctt catgtatggg ttacgactgc agtcaaaagca tatactcgac 300  
attctctgag gaagaaaaat taagttgaaa acacctgaac aagccatgta aaccttatct 360  
tacttgacac ttattaaatt gccaacagga tgcgtgctat ctta 404

<210> 17623  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 17623

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agcaattctg gatattggca aggaggaatg agtcattctt aagacaaaaa tctagatcta 120  
gaaggaaaaa tctacatagg ggtctacata ttgatgggat ttaggaggtg gatcctaaga 240  
aagtaaaatg gtaaggaag aattctcttc aaaaaatat ctgggtggag gatttggat 300  
agccaaagct tgaagggaca agattaaaaa atatctctca acaacaatat gagagtctca 360  
tcgcaaga 368

<210> 17624

<211> 363

<212> DNA

<213> Glycine max

<400> 17624

gtctctgctg cctaagtgtg gacctctag ggctatttcc attctctctt ttttctggag 60  
cctcatgaat gtcattgctt aacactgttc atgtgtcttc cacttctgag tctggagccc 120  
cgcgaaatgt atgcctaac actgategcc aattctccat tccccactat cattctggagc 180  
cccatgaatg tcattgccta gcgctgttca tgtgtctctc accttcaagt ttggagctat 240  
gttccatgat tgcctaaatg tggacctca agtgcaatcc tccattctcc actttttctg 300  
gagccccatg aatgtcattg cctaccgcta ttcattgtgt ctcaccttc gagtaaggag 360  
ccc 363

<210> 17625

<211> 415

<212> DNA

<213> Glycine max

<400> 17625

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aaattatctt ctttgaatt tgcacagagg ttcaacgttc aattctgagc gttctcuaat 120  
attacgggac taaatcagaa atccgagtaa aaagttatg ttgtttgaat tggcacagag 180  
cttgaacatt caagttcgag cgtctcaata tatcaaggaa ctcaatcaga catccgaata 240



aaacattatt gtggtttgaa ttggttcata ggttgaacat tcaatttoga gogtctcgat 300  
atattacggg actcaattag acatccgagt aaaaagttat tgtcctttga attggatcag 360  
aggttatoca ttaaatcttg agcgtctoga tatattacgg gactcaatca gacat 415

<211> 399  
<212> DNA  
<213> Glycine max

<23> unsure at all n locations  
<400> 17626

ajcttgtagt ggaagctcag atttcataat tgggtcacca acaggatgat agtcacagcc 60  
tgcctcaagg atttgcttac cagatgacag taaagtctga actttgtcat gaagaacctg 120  
ctcttgattc tcttttaact caaaatcatt agcataagga agattagtat gtccattaaa 180  
ataaacattg tttattgcgg aagcgtcaag aagtgggtta aagaactgaa aaataaaaac 240  
agctgcctaaa ctggaacggt aagtgggttt tgaggtatca tctttaggta caatagtggc 300  
tgtaaccaag atgacagcat cgtatagaat gctagcactt aaaagctntc cagctaanaa 360  
ctcccaaca tatcttgctc tgattgcctg cttaactcg 399

<210> 17627  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 17627

agctttgcat aacccaagga tccattagga aattacttat gaaagagago catgagggtg 60  
gggtcatggg ccactttggg atagacaaga ccttgtctt actcaaagaa aagttttatt 120  
ggcctcatat gaagaaagat gtccataagc attgcactag gtgtgtggct tgtttacaag 180  
ccaaattctag ggtgatgctt catgggctat acacacctt acccatcccc tctgtacctt 240  
gggttagacat taatattggc tttgtcttg ggttctctag aacccaaaga ggtgttagact 300  
ctatctttgt ggtgggtggat aggttttaga agatggcaca cgttatacca tgcataaag 360  
tggatgctc tccacatc tc 392

<210> 17628

<211> 470  
 <212> DNA  
 <213> Glycine max  
  
 <400> 17628  
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
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<211> 17629  
 <212> 214  
 <213> DNA  
 <213> Glycine max  
  
 <400> 17629  
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 224

<211> 17630  
 <212> 384  
 <213> DNA  
 <213> Glycine max  
  
 <400> 17630  
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300

gttgaggggtg gaactgggta tgttgggatg aaaatattga atgcaagttt attacatggc 360  
catgaaaact atgtttttca acgt 384

<210> 17631  
<211> 414  
<212> DNA  
<213> Glycine max

atgacaaaac cccagcagca gtgttttctt tagagacttg ccttagcacc ttatcttcga 60  
gactgaggat aattgcacta tttgcttctt acagtaatgc tttcttctac ccattcaccac 120  
tcattctttc aagtttgggt tcttcattca gtgtttccac caggccttgc tgaacaagaa 180  
gagttctcat ctccaatgcg catagcccca aatcattttg cctgttgaat ttttcaacct 240  
catacttggc tgagcccatt tcttgaatcg aactcaaaat tgcctctatg tcacgcgacc 300  
aatttgttgt gccaagatca gattataatt cacaaaagaa tgagtttctt gtatgaacaa 360  
gaataagcaa aatg 374

<210> 17632  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 17632  
cttgagacat tgtcattagt gaaaaccacg tagtcgtttc ctaactgaat tttaaaatta 60  
ccataataat gacttttggg acatagtgat gaccaaatat ttggtctgtc atttccattg 120  
ataactttgt agaggatgca cttgaattac tcattgttgt atataaattt atttbaaaca 180  
gaaaaagaaa aaaaatatat tcaagagttt atatttttta taagtaacaa aattactaaa 240  
gaatatcttt tatctaaaaa gtatatttga atggtaattt aactgttaact gtctattttc 300  
ttttcataaa ttatatatga caatattttc catagaagtt aaagaacgac tatattatca 360  
ttatttaaat atttatcata gagaataaaa aatgttttcc ataattttca atga 414

<210> 17633  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 17633

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ttaaactgca gtgatttgtt gtagtcactt gtygcagtga cgaacactac aagcaatatg 120  
atggcaaaa tttcaatttt atcccttga ccttgggccc acccttccat tattatacca 180  
tccataat tttcccaaaa tttcaatttt atcccttga ccttgggccc acccttccat 240  
atttttttct tetgattcac caagtgtcca gatgttgata taccatcacc aactgaggta 300  
ttgagtttgt ttgtgataga atcaacccca ccat 364

<210> 17634

<211> 381

<212> DNA

<213> Glycine max

<400> 17634

atcttataat atatcgatac gctcgaaatt aaacatcgaa aactctctgt aaattcaaat 60  
ggtcataact tttcacacgg atgtccgatt caggcaaacc acatategag tcgctcaaaa 120  
ctgaacaacg gaagctcttg agaaattcaa atggtcataa cttttcacac ggatgtttaga 180  
ttaaggcgca tcacatataa agacgctcga aaatgaacaa cggtagctct cgagaaattc 240  
aaatgggcat caattttcac actgagggtc gattcaggct tataatatat tgatatgtct 300  
gaaattaaac atcggaagct ctcgagatat tcaaatggtc ataatttttc acatggatgt 360  
ccgattcgag cgcataatat g 381

<210> 17635

<211> 403

<212> DNA

<213> Glycine max

<400> 17635

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tcaatttcca gctctcgac atattatgcg cccgaatcgg acatcgggtt taaaagtcat 120  
gataatttga atctctcgag agtttccgat gtttaatttc gagggtattg atatatgtta 180  
accttgaacc ggaacctuagt gtgacaagtt atgaccattt caatttgatg agaggttccg 240

ttgttcaatt tgaatatca ctatatgtga tgcgcctaaa tggacatcc gtatgaaaag 300  
 ttatgaccat ttgaatttct caacagctgt cgttggacaa ttctgagttg ctcgatatgt 360  
 gatttgcttg aattggacat gctgttgaaa agtatgacca ttt 403

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17636

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 aaggtgtgtg cgtttgaatt agctcagaag ttcaacattc aatttcgagc gtctcgatat 120  
 gttacgggac ctatcagac atccgagtaa aaagtcatg tegtgtgtat tggctcagag 180  
 ctcaacattc caatttcgag cgtctcgata tattcagagc ctcaatcaga catccgagta 240  
 aaaaatttat gtctgttgta ttggtccga gcttcaacgt tcaatttcga ggtctcgat 300  
 tagttaaggg actcaatcag acatccgaga gaaaagttat tctcggttga attagctcag 360  
 acgttcaaca ttcaatttcg aggtctttga tatgttacgg gacttaatca gacattcgag 420  
 taaaaagtat tgtcg 435

<210> 17637  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 17637

ttcaacattc aatttcgagc gtctcgatat attttgtgtt ttatttagac atccgagtaa 60  
 aaaggtattg ttgtttgaat ttgctcaaaag ctcaacattc caatttcgag cgtctcagta 120  
 tattaaggga ctcaatcaga catccgagta aaaagttatt gtctgttgaa ttgctcaaa 180  
 gcttcaacat tcaaattcga ggtctcggtt atattatagg actcagtcag acatccgagt 240  
 aaaaagttat tgaagtttga atttgcacag agcttcaaca ttcaatttcg agcgtgtcgc 300  
 tatattacgg gactatatca garatccgag taaaaattta ttgtcttttg aatttgcaca 360  
 gacttcaac attcaatttc gacgtctccc atattattac ggaactcaatc agacatccca 420  
 gt 480

<210> 17638  
 <211> 333  
 <212> DNA  
 <213> Glycine max

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 ctatcttaaa ctatcttaaa agaatattgt gacacacagt gatcttatt ttatcttaaa 120  
 caacacatgg gactggaatg agcagcaacc caattcaatt attgttgaca atgaagatgt 180  
 aaaagaacta cagctactcg taaacattgt cttaacatct ccaaatgaag ctcaaatage 240  
 tcttgagaca gagatttcaa caccaacaaa tgttggaaca acagatgcaa ctgacatgg 300  
 caatggggcg ggtggggtac aggtattgtc tccccaatcc cttaaccoga cgcctcgaca 360  
 tattccgata ccgtaaccg ata 383

<210> 17639  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17639

tcataagtc atcttattat ttaattctca ggtcttctaa gataattttc aaccaaatta 60  
 attcacaaat accttgtgcc atagtcttaa actcagattc agcactagat tgaaccacaa 120  
 cattctgttt tttaactctc caaattacta agtttctctc agaaagggtg aatattcagt 180  
 agtggatctc ctattagtta ctgacctgc atagtcaggc atttgtaagg tccaaggatt 240  
 gtattaacat tctctttata taaaattcct ctctctagtg ttccttgat tgcaaaatcc 300  
 tataagtgcc atgtaagtga acttctcttg gacaatgcac aaatttgcta accaaacttg 360  
 tagtgaatgc agtatctggc ctgtgtgag agtcagacaa gatatttaatt tccccacca 420  
 aacattgata cctctc 436

<210> 17640  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 17640

tgggcattct agtccaagcg tctcgatata ttacgagact gtatcagaca tccgagttaa 60  
aaattattgt aatttgaatt tgttcagagc tccaatattc aaattcgagc gtctcgatat 120  
cttcggtatt caatttcgag ggtctcgata tattgcagga ctcaatcaga catacgagta 240  
aaatttatt atcgtttttaa ttgtctcaga gcttcggaat tccatttga aggttcgat 300  
atattacggg actcaatcag acatccgagt gaaaagatat tgtcgtttga aattgctcaa 360  
agcttcggaa ttccatttcg agcgtctcga tatattacgg gacttaatca gacatccgag 420  
taaaaagtta t 431

<210> 17641  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17641

tgacaataac tntataacg gttttcttat tgagtcccg t aatataatcga gacaatccaa 60  
attgaaaacg gaagctctta taaaattcaa acgacaataa atttttactc ggatgtccga 120  
cagagggcgc tattatatcg agacgcttca aattgaaata agaagcacgt agcaaattcg 180  
aacaacaata agttttcact tggatgtccg attgagtcct gtaataaatc aagacgctcg 240  
aaattgagaa cagaagctct tggcaatttc aaacgacaat aactttatag togaatgtcc 300  
tattgagtcg cgtaatatat cgagatgtct canattgaan atggaagctc gtaacaaatt 360  
caaacgacaa taacattata cacggatgtc cgaatgagtc ctcttatata togagacgct 420  
ctaaa 425

<210> 17642  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 17642

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ttctcgagag cattcggtgt tcaatttcga ggggtgcgat gtattatgag cctgaacgg 120  
 atttcggtgt aabaagttat gaccatata atttctcaag agcttcggtt attcaatttc 180  
 aagcgtctag atatagtttg cgcctgaatc ggacttcggt gtgacaattt atgactattt 240  
 caattcttc cactatcttc tggccttcga tgaacttcga cctatcttcg cgccttcga 300  
 tcttccttcg ccttccttcg tcttccttcg tcttccttcg tcttccttcg tcttccttcg 360  
 tcttccttcg tcttccttcg tcttccttcg tcttccttcg tcttccttcg tcttccttcg 420  
 attagagttt cttgat 436

<210> 17643  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 17643  
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 cctttacttc ctttagcaaa tggcaatttt gcatcttttt cagaagcctc aaaaggagtc 120  
 tcttatttca tttgtgatga atttgaatat aagctgatgc agccagtttc tgatagagta 180  
 attgatcaga acattcctcc caatatattg aacaaactca ctgggtattgc gatgtcctca 240  
 aagaccaatg ctattctttg tagtattcac cattttgctc agctattccc tgcatttatg 300  
 ttagctgact ggaaatatag gagtaaaagt gttctgggac cctgaatctt gtogaaagcc 360  
 aacgtcatca tggtttctgc tattctggca atat 394

<210> 17644  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17644

tgaaattgac aacggaaget ctacagaaatt ttaatgtcat aacttttcac ttggaggtgc 60  
 aattcatgtg cataatatat cagacgctc aaaattgaac gaggaaggtt ctogagaaat 120  
 tcaaatggtc ataaacttc aacggaggtt cagattcagg cgcataatat atcagagatgc 180  
 tcaaaattga acaatdaag ctctcgagaa attcaaatgg tctaaacttc tcaactcgag 240  
 gtcagattca ggccataat atctcgagac gctcgaaatt gaacaattga agctcttgag 300



caattcaaat ggtottaact ttccacatgg aggtccgatt catgcgcata atatatcgag 360  
 aggttcgaaa ttgaacaatg gaagctcttg agcaatccan atggtcataa cttttccaat 420  
 gaa 423

<211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17645

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 acaaaattct aatgctgatg gttttctgtt tggttatcca acaacatttg gatccatggt 120  
 ttctcaattt aaagcatttt tagaagacac tataagcctg ttgtggctta cacaggcaat 180  
 gpcaggaaaa cctgtagggt tcttctctag cactagtctt caaggagggt gacaagaaga 240  
 gaaccccatga gttatattaa ttattactga attcttcaat attcatgatt aaggtttcca 300  
 tcaattaatg gttattttgt atatatccac tcaacatgag agaagtcaga tcaactatt 360  
 agtcaactact 370

<210> 17646  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17646

actaagctcc ggagtttcca gtgccaatnc gtcttctctt ttagtccatt cttcttcttg 60  
 cttcaattct tcagtggggt ttcttctgtt gtccagcctc ttgggatggt ccagagcttt 120  
 gatgacagct ttccaagttc tgcctatccag tgatttgagg aaggccacca ttcttgcttt 180  
 ccaatattca tagttgcttc catcgagaat aggtggctct ttcactggtc cgccttcttt 240  
 ctccatgttc atcagaattt atctccctag atctcactct gtgatttcca gtgttggttc 300  
 tgataccaat tgaattctct ataccaaggg acagatgtct tacaggatgt caadacatca 360  
 cgttccagaa catccacatt aatgtgtgtc gtaigaacag attaaacaag tgaataacac 420  
 accagaattg trace 480

<210> 17647  
 <211> 430  
 <212> DNA  
 <213> Glycine max

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 tgtttcttggtg aaaatcaaaa gcataatattg tgacatgcac ttgactatad atgtcatatt 120  
 ttatgtcata ttttaagtgg tgcagaagac gaggaataag aatggaaggy agaaagatgg 180  
 taacatttta tgcataatgat tcaaatttaa cgtgagactt aatataaaat tttaaattact 240  
 tttagaatca aatgatttat aatgataaa atttaggaac caaaatataa aaaagtaatt 300  
 caattcgata actaaattta ggttgtgatg tcatlaagtc taaaaaataa acaataaaaa 360  
 atcaactttc attntagtc tggattgtca tgtattcaaa caacatttca cataaatacy 420  
 aacattaacc 430

<210> 17648  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 17648  
 aagaagattc ccaaagaaga tagagcttag ctacacttac ctctctaata gctaaggtea 60  
 cctccttgag atgagaagct agagcttagc tatacacccc ctataataac taagctcacc 120  
 cccatgaaaa atacatgaaa atacaaaaaa aaatccctac taaaaagact actcaaaatg 180  
 cctcgaaata caaggctaaa accctatact actagaatgg cgaaaatata aggcocaaac 240  
 gatggaaaaa cctattctaa tatttataaa gataagcggg ctcatactta gcccatgggc 300  
 tggaaatcaa cctaagget catgagaacc gtagggcctt cctttggatc ttgaaacca 360  
 tctaacttga gtctctctac caatgccctt gcgggttaga ttgcattcagt gtctcccttc 420  
 cctcttc 428

<210> 17649  
 <211> 430  
 <212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 17649

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 ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 120  
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 ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 300  
 ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 360  
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 ttttcttctt 430

<210> 17650  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 17650

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 cttctattaa cttaaattaac ctccctgaaa ataattacgg ataaaaaata acataacaaa 120  
 taatcaaaaca tcaaacataa ttactaataa tatatagata tatatatata tgagggtggt 180  
 acattgggttc ctaagttgtg gttctttatt gttggaggtt tgaaaacaaa aggtaaaaga 240  
 aactatgggtt gaaactagcc aaaataaaca ctaaaagagg tgtgaaagat aaggtaaaaa 300  
 actaatgggtt aaaaggaaaag ctatctaagc gggttgacag tggaaggtaa aggaaataag 360  
 ctacgaaagt aagcaagaaa tgtaaactat gcgaatccta agagtgtgtg gatgaccaca 420  
 421

<210> 17651  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 17651

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agtatctgag attcaacttaa aattagtgag aaaaattggt tccgttggtta gtgcttagct 120  
 ctactgagct ttaaaagatt ggctaagatt ttgttaaaac ataagcactt agacaatgaa 180  
 agaaaagctgg agtctgtgca catgatgtcc aacgttatgt caaagaataa gatcgggctg 240  
 gtccgataca atgtccagga catctgtccc gaaaatactg gagttgctaa aagcattgaa 300  
 ctgcaagat ccaagatgtc guatacaatg tccaggacat cctgctcagaa aatactgag 360  
 ttgctaaaag cattgaagct g 441

<210> 17652  
 <211> 416  
 <212> DNA  
 <213> Glycine max

ctgatgatag aggatgcacg aacagagctt gcaatctatt ttggggctcc ggactcaatg 60  
 gtggagggatg gatgaacgac aatcaattcg tggggctccg aataagattt gatgatggag 120  
 gatgcacgaa cagcgttagg caatcaattc atggggcacc gtactcaatg gttgaggatg 180  
 catgaacgac aatcaattca aggggcttcg aataagcttt gatgatagag gatgcacgaa 240  
 cagagtttgc caatcaattc gtggggctac ggactgaatg gtggaggatg catgaacgac 300  
 aatcaattca tggggctgag aataagatgg tggaggatgc acaaacaaca ttatgcaatc 360  
 aattcgtggg tctctagact caatggtgga ggatgcatac acgacaatca attcat 416

<210> 17653  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17653

tgtccaaaat ctcaactaata ttaggcaact gtatctggat ggtgtaagta tctcagttgc 60  
 aggacatgaa tgggtgcagcg ctttatcgtc gatgcttgac ctgcaagaaa ttgcctgtgc 120  
 caagtgcatt ctctcgggac cctcggatc ttcctcggca agacttgaga atctatcagt 180  
 cattgtctct gatatcaact atctatcact cccagtgcca gaaacatttc cccatttgaa 240

aaatctcacc atctctacgcc ttctctgagtg cagattgact gggacatttc cacagaagat 300  
 ctctcagcatt gaaacattgt ctgttattga catatcactc aaccaaaaac tcaatgggtt 360  
 ctctccaaaac ctcccatgga gcagatcact ccagacotta naagtaagaa acacaagctn 420  
 tcttgggga ttt

<210> 17654  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17654

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 gcttatatta gcagaggaca aaacagaaaa ataacagaaa aacttcata tggatttagg 120  
 tcatagccca acacataggg acctcaagcc tgagaacttt ctctttgata ctgttgagga 180  
 gggtyctaag gtcaaaaacta ctgattttgg gctctccttg ttttataacc caggtttggt 240  
 tgetctctcg ctgattttgt tttttgtgga agatgcctgag ggagagggct tggctcgtggg 300  
 ttttctgtgga ggtggngatt ctgatgatgt ctcttgagttt tctttggcgg aggagctcgc 360  
 cgtatgcagtc gcttggcagt ggagccaatg ccgaggacca tgcctggactt gacatactcg 420  
 atgaaccttg 480

<210> 17655  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17655

tgagagatct tcttcaacaa tggaaatacca aatcacatcc ccaagtgcac accaatattc 60  
 cacaggctat gtgacaaaaa agtccctctc tccacctgtg gagtttctta cctcaccaca 120  
 actcatattt ggggaggaga ttcttcaact cagccacctt caggaccttc tctcaatggt 180  
 ggatctcctt gacctgttca attgtgtggg gtgcdaagag tatgctcttg gaaagaggtt 240  
 tgtttgcacg caatgtgatt tccagctgca tcaattctgt gccttugctc ctctctgct 300  
 caaggcacac ccttttcaat cacaacactc tgtcttttct catccaaaac caagtaaac 360

acgtacatac atacatatat atatattcat gagtacaatt gtacaaatgt aatnttttat 420  
 ttaaataatta tatta 435

<210> 17656  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<214> none at all in location  
 <400> 17656

ttaattggag ttttgttttt tacagaactta gttggacatc ttttgagtat gtaagcagca 60  
 gttgtagactg cttcagccca aaatgtgtta agtagtcctt tctcttgag catcgatcta 120  
 gttatttcca ttaactgtgag attctttctc tcggacactc cactttgttg aggagaatat 180  
 gagaactgtaa gttgttcgta aatgccttca tcttcacaaa atctttcaaa ctgcgcagag 240  
 gttgaactctn tttgttgatc acttcttagt acttttctcc gttttccact ttgattttta 300  
 gcaaggggct tgaactttnt gaatactcca aagactcttg attttttctt ttagaaaata 360  
 taccatgctt attctagaga agtcatcaat gaagagtatg aagtaccctg tgttctcat 419

<210> 17657  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 17657

agcttttgag cttttccatg ggtcatagct tttcactcgg atgtccgatt caggcgcata 60  
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 ctttttaact agatgtccga tgcaggcaca taatatatcg agaagctcgt tattgaacaa 180  
 cggatagctc tcgagaaaatt caaatggta taaactttca cagggatgtc agattcaggc 240  
 gnataatata tcgagacgct cgaaattgaa caacggaagc tctcgagaaa tataaatgga 300  
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<210> 17658  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 17658

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 aaagttatga ccatttgaat ttctcgagag ctccgttgt tcaattttga gtgtcttgat 120  
 atattatacg cctgaatcgg acctccgagt gaaacattat gaccatttaa atttctcgag 180  
 gagaaaagtt atgaaatatt gaaatctcag agagcttccg tggctcaatt tggagctgaa 240  
 cgatatctta ttggtctgaa tccagacctcc cagtgaataa ttatgaatct tgaatatct 300  
 caagatcttc cattgttcaa ttctgagcat ctcgatatgt tatggccttg aat 413

<210> 17659  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 17659  
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 ttgtttaatt gcgacccat cgacatatta tgcacccgag tggacatcc gggggaaaag 120  
 tcatgatcat tcaaatctcc tcaaagtttc cgatggataa ctccgagcgt atcgatatat 180  
 tattaccctg gatttgacct cagtctgaaa agttatgacc atatgaattt gacgagagct 240  
 ctcgatgata aatttcgaat atcactgtat gtgatgcgcc tgaattggac attcgagata 300  
 aatggttatga ccatgtgaat ttttc 325

<210> 17660  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 17660  
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 ttgaaagtta ttgtcatttg actgttcata gagcttccgt ttcaattat gacgctctcg 120  
 atatccctacg agactcaatc ggagatccgt gtcaaaaagt attgtcgttt gaatttgcta 180  
 aaacctctcg ttttcaatta caagcgtctc gatataatcc gagactatat cggacatccg 240  
 actcaaaaagt tattctcgtt tgaatttctc tccagcttcc gttttcaatt tccagcgtct 300  
 cgatctatta cagggttcaa tggacatcc cagttaaaaag taatt 345

<210> 17661  
 <211> 352  
 <212> DNA  
 <213> Glycine max

atgagatgatt tcttaagaga ataatcttgc aatgcttgc tcttattat cccatgaaat 60  
 atcaagacac tccgaattga aaacggaagc tcttagaaaa atcaaatgac agtaactttt 120  
 aactcgaatg tccgattgag cccctttaata tatctagaag ctgaaattt agaacagaag 180  
 ctctatgata agtcaaatga cagggacttt caattctgat gtctgattga gtcccgtaat 240  
 atatcgagac gctcgttaatt gaaaactgaa gatctgagcg aattcaaacg acaataactt 300  
 atcgactcgga tcttcaattg cgaccggtat gatagcgaga cgctcgtaat tg 352

<210> 17662  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 17662  
 agtttacata tatcccccat gtgataatct gaacaagaga gaattatggg aagcactaag 60  
 ccagetaaga caccaagatc ctgagggatt atggtgcttc ttoggagatt ttaacagcat 120  
 tagacaccag tccgagagag aaggggtggc tcacaggggt atggaagcaa acaacataac 180  
 tgaatttagt gaatggctag ccgacctaga ggtagaagaa atacctagtg tggggagaag 240  
 attccatgg tttaatccaa acgggactgc aaagagtaaa ctagatagaa tttttgtctc 300  
 tcatgaatgg ctcaacaaat ggccaggctg cacccaattc atcttggtac ggaacttctc 360  
 g 361

<210> 17663  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 17663  
 aucttctagg gtaaaatct caccattgac acgtgctcat gcaacaattc ttggcctgg 60





aat

363

<310> 17666

<311> 396

<312> DNA

<313> Glycine max

<400> 17667

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gattttgcac acactccctt caaagtgaag tctgtagcct ctctccatca ttctggccaat 120  
gtttagaaga ttttttttta ggttgggaac tagtaagaca tcatgaatga gtctgctaac 180  
tttatctgtc tccaccatga cagtgccttt gctttttgat tccaccacac ttccatttcc 240  
cagtccaact ttgaatttga cagactcacc aatgcttttg aaaatagctc catctttggc 300  
catgttgattg ctacatccac tatccaagta ccagcttccct cctttttctt ttattgagtc 360  
ctgagtggca tajaacatcc attgttcttg atcatg 396

<310> 17667

<311> 415

<312> DNA

<313> Glycine max

<400> 17667

tctatagaag gtctgttccct aattgctcta ctattgtatc acctctcaat gagatagtga 60  
agaagaatgt ggcatttacc tggggtgaaa aacaagagca agcctttgct ttgctcaaag 120  
aaaagcttac caaggcaact gtcttagctc ttctgaactt ttctaaaaat tttagcttag 180  
aatg'gatgc ttctggagtg ggagttggag ctgtttttgtt gcaagggtggg caccctattg 240  
cttattttag tgaaaaaact catgggtgga cctttaacta ctccacctat gataaagagc 300  
ttta'gcctt aataagagca ctcagaactt gggaacatta ccttgtttcc aaggaatttg 360  
tcattcatag tgatcatcaa tcaacttaagt tcattagagt gcattagcaag ttaaa 415

<310> 17668

<311> 354

<312> DNA

<313> Glycine max

<400> 17668



ctgacaaaga gaactcatcc acattcgtta caaaactcac aatggcgagca gcaattttca 420  
aattaccaca ctt 433

<210> 17672  
<211> 363  
<212> DNA  
<213> Glycine max

agcttttgaa ttttatctgt ttaagcgtcc catgttaatg cgagctaatt ctattatgcc 440  
atagccatgg atcattatct ttgctaagac aacattgact attactaaa ttttgaetta 460  
agtctatcat gtaaacatta ttgactctaa accttatatg ctttatatto gtatcatgtc 480  
catgttcaat gacacattgt tgagaacca atgataccag atagccgttg tccacacactt 500  
gaataaacct aagcatgttg tgottaagac ctccaactag tagatcattt tcaatggagg 520  
tgaagaatt tgacctattt ttccaactcc aagaattcta ccttttctgt tgtctccata 540  
cgttaccatgc cc 372

<210> 17672  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 17672  
agcttcaaga ttaagatggc ctcagcaaat tcttatttc cagaagggaa ttctatcaat 60  
agacctccaa tctttaatgg agagggttac cactactgga aaaccogaat gcaaatTTTT 120  
atcgaggcaa tagatctaaa tatctgggaa gccattgaaa tagggcctta tataccacc 180  
acagtagaaa gattttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240  
cctagagata gatggcttga agaggataga aaacgagtag aatacaacct aaaagccaaa 300  
aacataataa catctgccct atgaatggat gaatatTTca gagtttcaaa ttgcaagagt 360  
gct 363

<210> 17673  
<211> 400  
<212> DNA  
<213> Glycine max

[illegible]

400 176.74

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tgaggagcaag	gtagtataac	caatcttttg	ccactccctc	tagagaatga	ggaaaagcct	180
ctagaaagat	atgatcttcc	tggacatcag	ggggcttcat	ggtggaacaa	acaatatgga	240
actccttaag	atgtttatga	ggatcttcac	ctgcaagacc	atgaaacttg	ggcaacaaat	300
gtattagtc	agctttaaga	acatatggaa	cacctccatc	aggatattga	atgcacaagc	360
...						362

422 17675

aggtttctcc actaagtttc ctgatgcctg aaatgtcttt ttgatggcg gtgatoctag 60  
 atgacagggaa gaatttctcc aagaacaccc tottaaggtc atcttagctg aaaatagacc 120  
 tggagacaaq gtaagtatac caattcttng ccactccctc cagagaatga ggaaggcct 180  
 ttagaaaatg atgactctct tggacattag ggggtctcat gctggaacaa acaatatgga 240

actcettaag atgtttatga ggatcttcaa ctgcaagacc atgaaacttg ggcaacaaat 300  
gtattagtaa aatcttgaga acatatggaa caccctcacc aggatattga atgcaca 357

<113> Glycine max

<400> 17676

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gtttgctaag ggttagagaga ggaagactag agatttggat caagtaaagt gtgttaagga 120  
tgaagaaggs aaagtcttag tgcctgaaaa agatctcaag gaaaggctga aggtgtatctt 180  
ccacaactta tttaatgatg gatctggata tgaactctagc agtctagaca caagagaaga 240  
ggaccgggaa tataagtaac atcgtcggat tcagaaacag gaagtaaagg aagcgttgaa 300  
aagaatgagt aatggtaagg cggctggggcc agacaacata cctattgaag tgtggaaaac 360  
tcttgagat 370

<110> 17677  
<111> 415  
<112> DNA  
<113> Glycine max

<400> 17677

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gtggcgctct ctctctctct taactataca ttccgtctgc attcatcttc caagaagcaa 120  
aggaatccat tgatgaagag gatccctatgc ctacaagctc caatggagca tacatcatgt 180  
ggtatcaaga gaactctcat ctaggcgatg ttctttctgt tctctatct ttttgtctcg 240  
agaattctct ttaattacct gttcttcatc ttactctcca tgtatctct ccattgtctt 300  
gtggcttggc gctcgtttaga gttagatcaa aacaaatcaa ccgattaaat tttacatcta 360  
cacttgctca tgcctctcta tggctcctac ttttgaaaac tactcttgaa tcatg 415

<110> 17678  
<111> 363  
<112> DNA  
<113> Glycine max

<400> 17678

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tttttcagat gtaagattta gcaatgatgc acaggtctca tgtttttttt tcagagcaac 120  
gaaagatgc agggctaaac ataaaagcta tgaatccaat ctaccaataa atggccaaat 240  
tttttaataa gaaagtttgc aataaggaaa tgcagatgat gattatataa aaaggtccat 300  
caaaacaagg gatggaatta tcatatcaga gattctagaa taacacagat aaaataatca 360  
ataaccaa 368

<410> 17679

<411> 370

<412> DNA

<413> Glycine max

<42> unsure at all n locations

<400> 17679

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gactgatcca ttgtgttcga aagtttcatg gctttgcagg tgaagaccgc caaaaacatc 120  
taaaagaatt ccatattgtc tgatccacca tgaatccctt agatgtccag gaggatcaca 180  
tatttctgaa ggatttttct cattcttttag agggagtggc aaaggactgg ctatattacc 240  
ttgttccaag gtccatcag agctgggatg acctcaagag agtattctta gaataaatcc 300  
ttcttgettc tangaccaca accatcagaa aagatatttc aagaattagg caactcagt 360  
gagadagctt 370

<410> 17680

<411> 407

<412> DNA

<413> Glycine max

<410> 17680

tgttgcctct ttgcactgcc atttgtttga taaattttga aggagacctt ttccggagat 60  
gtaataatcc atgatgacat aactgttagt aaagacatac ttatagctag ctgtatagaa 120  
gaaaagggat gataaaggtt taaataaaaa ataagaatgt aaaaattatc ttatatata 180

atttaatgaa ataatgaatt ttatatgcag ataaaacgta ataatggtac aaottataat 240  
 attattaaat agataaaaata tatagtcaaa aaattctgat atatttagac atottaataa 300  
 tatcaataac ttattgagat cctcaatttc tctctattat ctgtttttta caccatcatal 360  
 taattatctt tctttttttt tttttttttt tttttttttt tttttttt

<210> 17681  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17631

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 aacataaaaa gggaaaaggt aatattgtag cagatgctct ttctgggagt catgcattac 120  
 tttctatgct tgaacacaaa ttgattgggc ttgaatgttt gaaaagcatg tatgaaaatg 180  
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240  
 gacattaggt tttcttttca aagaaaacag atgagtgaat aggcaattta gtccctgaga 300  
 ttgtaaccac ttgcatatt agtccctgac ttanattnta attcataata gtccctaact 360  
 ttacataagt 370

<210> 17632  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 17632

agctttaaaa gtttggctaa gattatgtta aaacataagc acttagacaa tgaatgaaag 60  
 ctggagttgc tgcacatgat gtccaaagtt atgtcaaaga ataagatcgg gctgcacaat 120  
 gcacaaggca agatgaaatg tcaaatgaag aattgaagct gcaggattca cgatgtcggg 180  
 tacaatgtcc aggacatcct gctcgaaaat actggaattg ctaaaagcat tgaagctgca 240  
 ggatccacga tgtctgatac aatgtccagg acattctgct cgagaatact ggagttgctg 300  
 taatatgcaa gattaaagtc aagtatgaa gctgcaggat ccacgatctc agatacagatg 360  
 t 361



<210> 17683  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 17683

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 ttaaaagaaat taaatagatg aataattgga ttaattccat ctaaaaaxaa cttaaccuat 180  
 ttgaaagaaa caatgtgtgg aaattagtag aaaaacctga aaattatcct gtcataggaa 240  
 aaaaatgggt ttttagaaat aaattagatg aacatgggtat aattattaga aataaagcaa 300  
 ggttagtagc aaaagggtat aatcaagaag aggyaataga ctataaagaa acatatgctc 360  
 ctgttgcaag attagaagcc attagaatgc ttttggcata tgcatacata 410

<210> 17684  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17684

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 ttcactttct attcaagtta taaattccct taataatgaa cttcttaaatt attgattaaa 180  
 atagaaccaa ttgaatatga atataaaaaca atgataaata aagaagttaa agggaagaga 240  
 aagtgcaaac tcagatttat actggtttgg ccacacccctt gtgcctacgt ccagtcacca 300  
 agcaacccgc ttgaaagttc cactatcttg taaattccct ttacaagttc taaacacaca 360  
 aggacaatcc ttcttttgtg tttagaatta caacaagaga ccttcggtct cttaatecc 419

<210> 17685  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 17685

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 ttgaacaabg gaagccctcg agaaattcaa atggtcataa ctattcactc ggagggcoga 240  
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 ....  
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<210> 17691  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 17691  
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 atcctccgca aactgaagca tgtttactgg gaccttattc ttctctacca aaaagctgtg 120  
 aaagaagttt gtagagactg ctctccctcat caaacctgat aaccttcag cagccaaaac 180  
 aaataaaaaa ggggccaaaag gatccctctg cctcagacct ctttgaggct taaactcctc 240  
 agttggacta ccatttataa ggatggatat tgaagctgaa gaaaggcagc ctttaaccca 300  
 accaatccac ctctcatgga acccattct cctcaacata tagaaaataa attgccagga 360  
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 cctagcctcc tcaacaacct cactagcaat cagaac 456

<210> 17692  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 17692  
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 tgcattggga atggaaaaat tgcacagttg catgactaga ctaatatcgt aaaagtgate 180  
 attgcaaacg cacatcaata cttagaagtc tgcctgatcg aggcctgacc cgaatcaaat 240  
 aaacattata aatgtagat ctatgaagtg atcctatgtc gtctcccaac gacgaatgat 300

ctactcaacg ttcataacaa atagtaatag aacagtacct aattgggggg ggtgtatget 360  
 ttoggatatt aatagccatc caatttgagt tagaaaaataa ccatttataa catgttggtc 420  
 ccc 424

<210> 17693  
 <211> 17693  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17693

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 tccctctttg cagcaatttg gaatcaatga gcaacctgaa gcttatgctg caaacattta 180  
 taatagcccc cttagcagca aaaccaacaa cagcaaaaata attatgatct tccaagcaat 240  
 aaatacaatc caggtttaag aaatcatcca aaattgagat ggacaagtcc tccacaacaa 300  
 caacagcttg tccctccttt ctagaatgct gctgggtccaa gcaagccata tgttccctct 360  
 ccaatadagc aacaacaaca gtcacaacta agacaacaag caacggaggg tccctctcaa 420  
 ccttcttag aagagttagt 440

<210> 17694  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17694

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 aaagaagttt ctcttttgaa atttgaattt taaatgctgt aatcgattac cacttgtatg 180  
 taatcgatga ccttgatga aatttcagaa gttaacattg aaaagtctgt acctttccaa 240  
 acataaantat gtaattgatt accaagaagg tgtaatcaat taccagtgag agaatttttg 300  
 aaaaatattt tgaagaatca cgtctcttca aaagttttg aaaagccacc aaggacctat 360  
 aaatadgtga ctgtctacg aaaaacatta gagtnttca ttagaacctt agtgacatat 420

tetete

426

<210> 17695

<211> 245

<212> DNA

<213> Glycine max

<214> 17696

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ctcaatcgga ctgacgagtg aaatgttatt gacgtatcga atttgcacg agcttcggct 180

tgaattact agcgtctcag tatattacgg gactcaatcg gacttcgag tgagatgta 240

ttgtc 245

<210> 17696

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17696

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tgtacctgtc gcaagggttt gtggattgtg ctcccttgcg gaccaccata cagacctttg 120

cttttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180

caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctctc 240

cagcatcaga tacaacctg gatggaggaa taccctaac cttagatgag ccagccttca 300

gcataacaaa cagcagcctg ctcccttctt taaaagcctt gtgccccacg ataactatac 360

at 362

<210> 17697

<211> 448

<212> DNA

<213> Glycine max

<410> 17697

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[illegible]

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<210>      17699
<211>      455
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      17699

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tctctaaaccc ctaccgctgc tacaacttgc aaactaagaa actcgtcctc agtcgagatg    120
tcgaacttga tgaatatcct tcttggaatt ggaatgaaga aaaaatcgaa aaaaagcttc    180

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ttatacccgcc tcaactacct caagaagaag ctgaggaaga agaccacggt gaaccacott 240  
 caccctccacc acaacaacaa gatcaagaac tatcatcacc agagtctact ccaagacgag 300  
 taagatctttt ggtggacata tatgaaacct gtaacttggc catacttgaa cctgggaagct 360  
 tcaatcttcc gtaaaacacg taactatggg tcaagcgaat gcaaggaagag tcaatcttcc

<210> 17701  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 17700  
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 tttttataaa tcattgtaca caaaagggaa ataaaaattaa tttgatgtat aatacttttc 180  
 aattctaaaa taagtatcgt cctaattatt ttacctaaat aaagaaaaat tattagaaat 240  
 attagaaaga aaggtccagg aaaatgatct ctctattccc atgacaaaat gtgttttatat 300  
 acacatattg tattacaatc gtgatccctat aattaagtta ggactaatta cactaaatat 360  
 agaaatgaac atatatggaa agaattggtc ttgatagcta cacaccggca gatactaaat 420  
 cat 423

<210> 17701  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 17701  
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 cccgtctccg aaggcctgaa aaatgtgacg aaactcgggt cccctgacgt acgtgtggaa 120  
 attcttgcct agcatgtggt ggacgttgat ggggtcgcaa gtgaccaaat agtccatggt 180  
 ggtaaaacaa ggtccaatga actcaccagt gccaccatgt cgttgcaaca cctgagatga 240  
 ataactcatg gcargccata aattgaacag taattgtggt agcatgccta tgatacggta 300  
 ttctgtccaa atgggttggt gcaacatcgt ctccatgga agaaatattg g 351



<210> 17702  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<214> ensure at all n locations

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 taaatatcat agcctttttc gagtaattgt cccaaactca aaatattgat cttcatattt 180  
 agacatagt agacatttga tatgaattca tgtcttccaa ctttcaaagc aattaagatc 240  
 taaagcatct atagtagaca ttgaaatga attcatgtct tccaactttc aaacgaatta 300  
 atagctctat aattatcacc aaatgaaaca ctattctaaa gcattctatag tcaagtatta 360  
 ttggtgaacta tggcgacgat aatcacataa tgncttctga tgagtagatc gactaatgac 420  
 cactctcat aggtcatgga ta 442

<210> 17703  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 17703

tatctccagc atagtcaaca tcacagtgc ttgtgagtc aaaatctttc cttcttttaa 60  
 agcatagacc aaggttataa gttccaataa gatattctaa aatgcattta ataacagata 120  
 aaaggacttc ccttgggtct tttgaaacc ttgcacataa gttaaactca aacatttat 180  
 caggccata cgtatataag tataacaatg atccaatcat tgcattttat tgggttttgt 240  
 ccaacttttt tagattcttc gtccaacct aagtattctag ttggatgtat aggtgtctcc 300  
 atttcttttg cactgtccac gttgaacata ttcagaaggt ctttcatata ctgggtgatg 360  
 caatctacc ccgcaggcca ttgggtagaa gactccaagt agattggcta gagat 415

<210> 17704  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<214> ensure at all n locations

<400> 17704

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gatgataatg cccaagcctt ttgtgccaga tttctgtgtg attctctatg agagagaaaa 120  
tctttctctc ttgtctcat gttatcagc ccaactgtg tttctatc tttctctctg  
tga tttgtg ttgtgtata tttttatc tttgtgtgtg tttgtgtgtg  
ttttcttc tttgtgtgtg ttgtgtgtg ttgtgtgtg ttgtgtgtg ttgtgtgtg  
tgatitcaac aatacatctt gtgctgtcag aactgtgat tgcacgtgc ccttttctt 360  
tgatggagat ataataacca ttaccaatc ttactctggt gactttt 407

<210> 17705

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17705

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gcctctctaa tcaactttcc tctactcca ttctgcttcc attgatcttc aagaagcaaa 120  
ggactccatt gatgaagaag atccaaggcc tacaatctcc acatggagct acatcatgtg 180  
gtatcaagag catcttcato taggtgatgt tcttttgctt cctctatctt tntcttcggt 240  
taattcactt taactctcat tttctctcc atgtatctcc tccattgtct tatggtttgg 300  
tgttgtttat agtagattca aaaaaataaa tggattanat cttagatcta caattgttct 360  
tgcatctcta tggttcaaat tntatagatc aactcttgaa tcatgntttt gtgttgattt 420  
taaggtgtat ctttttt 437

<210> 17706

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17706

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agaagaatgt ggcatttacc ttgggtgaaa aacaagagca accctttgct ttgtcaagg 120

aaaagcttat taaggcacct gttctagctc tttctgaact ttctaaaact tttagagctag 180  
 aatgtgatgc ctctggagtg ggagttggag ctgtattggt acaagggtgg caccctattg 240  
 cttatttttag tgaaaaaatt catagttccc ccttcaacta cccacactat gataaagagc 300  
 tttatctt tttatctt tttatctt tttatctt tttatctt tttatctt tttatctt tttatctt  
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 gttatctt tttatctt tttatctt tttatctt tttatctt tttatctt tttatctt tttatctt 400

<210> 17707  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 17707  
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 cagcaacaac ttctcctccc tggaatgcga ccttatcttg cgacaataca ttttgagatg 120  
 qcacttagga caagttgtcc ctttgtacct atcgaaacca ggtaccttga atgatgcaat 180  
 cctacccccc aagggcattg gatagaatac tccaagaaga ttggggccaa gatgcaagag 240  
 aaagccctag gggtctctta agccttatgg tagatttcag gcccatggac taagtatgag 300  
 cccacttato ttgtacata ttagattaag gcttcattaa tattgggtct tgaatttatg 360  
 gctctataat atatgtaggg taccctat 383

<210> 17703  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17703

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 tggatccccc cctgtatgtg attgggagaa ggacaatcag ttagttgatt atatcaaata 120  
 ttgatttcaa atggcaagta tggctaaagt ttattcctca tgaagcttcc caaaaagaat 180  
 qcgagataga caattatttt ccatgtaetc atatacagtt attagcttct tcccctccac 240  
 acaacatcca taaagcttaa caagattggg atcttgaagc ccagatata gttccctctc 300  
 attcacaaac tcaagatttc cctgtttaga ttttgaagaa agctgttcta ctctatcta 360

tgtaccatct gataataggg cctgcatcat gaac

394

<210> 17709

<211> 322

<212> DNA

<213> Glycine max

<400> 17709

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ccccaatcaa aacctcaaa gtcctcgacc tctcaaacaa tagcaacgaa ctctaaggga 120

aaetccctgc ctggctccct tctctgccc aattcttctga aatctccctc gaagcatabc 180

gcattctcggg ctctctctcg aagtcgctca caggatgatg acgctcaccg acaacggcct 240

taccgggaag atttcgggga aactggcgaa gctggacttg aaggttgggt acttctgtca 300

taatatgctg gagggtgatg ct 322

<210> 17710

<211> 395

<212> DNA

<213> Glycine max

<400> 17710

tatgcttgc taaagatgtc ttgattaat taattatctt aaaatctagt gaaatactaa 60

ctaaaaaaaa acataaaatt tcgtataagt aatgtacaaa tccaaaaata attgataaac 120

aaaatcatat tgaattcaag tcgttaaagc acaaagtata tataaaaaaa gagcataata 180

ttaaaaaatg tatagattag gtcttcagtc ccatagctta caaatctatt ttaagtccaa 240

gcctataaac gaaataaaat aaaatttggg caaaataaga taagatttga tgaaatataa 300

tctggataaa ataaaatcta aattgaataa aatctggata agataagatt tgataaaata 360

aataatatta ttattattgt tagttaaaca gttat 395

<210> 17711

<211> 385

<212> DNA

<213> Glycine max

<400> 17711

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gaaaattcca gaattggccc atatgcttcc gaagatatga taaagatggg taaggatgct 120  
 ggagaggagc ttctttctcg agccggacct ggctttttca gtctttaaca atccaccaca 180  
 ttaattgggc aacacaatac ttgatcaggg aggttgcaag gtcagctctt ccagttgact 240  
 .....  
 gaaaaataa gcaatccac atgggtccat tgggtctat caaggcgatt ataaagccaa 300  
 attttctat tctgtgtgt attat 360

<110> 17712  
 <111> 392  
 <112> DNA  
 <113> Glycine max  
  
 <123> unsure at all n locations  
 <400> 17712

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 ttgatccctc cctgtatgtg attgggagaa ggacaatcag ttagttgatt atatcaaata 120  
 ttgtattcaa atggcaagta tggctaaagt ttattcatca tgaagcttac caaaaagaat 180  
 gogagataga caattatttt ccatgtactc atatatcagt attagctggg tgcctccac 240  
 acaacatcca taaagcttaa caagattggg atgttgaagt ccagatatca gtcccatctc 300  
 attcacaac ccagatttc cctgntaga ttttgaagaa agctgcttta ctgctattat 360  
 tgtaccatct gataataggg cctgcatcat ga 392

<110> 17713  
 <111> 397  
 <112> DNA  
 <113> Glycine max

<400> 17713  
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 tgttgtagtg actggctgct taactggaag tgacaatctg aaaaggaagt ttaactagtc 120  
 ctttttccca gctccccagg acaaaggcta ctttgttttg aatgatggtt ccagatatgt 180  
 ttatgagtat aagtcagtg atattgagtc tgtgcctgca aacatgctc ctgatgaaac 240  
 tgcctcaaca gatgcttttc tccccagcc ttgtaaatct ttacatctgc tgggtatata 300

tgatogtatt cctgttgttt ttcattttct tectetaaca ttttgottat ctttgtgtaa 360  
 cttgtaagtg tgagttttga aacttttact tggatta 397

<310> 17714

<311> 394  
 <312> DNA  
 <313> Glycine max

<400> 17714

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 aaaaaaagtt attgtcattt gtattgtctc agagcatcaa cattcaattt cgagcgtgtc 120  
 gatatattac gggactcaat cagacatccg agtaaaaaagt tattgtcgtt tgaatatgct 180  
 tagagcttcc gcattctatt tcaagcgtct cgtatatatta caggactcaa tcagacatcc 240  
 gagtaaaaag ttattgtcgt ttgaatttgc tttagacatc aaaattctat tttagcgtgt 300  
 tggatatatt atgggactca atcggacatc cgag 364

<310> 17715

<311> 390  
 <312> DNA  
 <313> Glycine max

<400> 17715

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 aggttggatc aaatggagaa tagagatcat aatgaagaag aaaggaggag aagagggaaat 120  
 gatggtgttc ctagacaaaa ccgaattgat ggttttaaac tcaacattcc tccatttaaa 180  
 ggaaagaatg atctggaggc ctacttggag tgggagatga aaatagagca tgttttctca 240  
 tccaacaact atgatgagga ccagaaagtg aagcttgcctg ccacggagtt ttccgactat 300  
 gctctgtgtt ggttgtacaa gcttcaaaaag gagagagcat gaaatgaaga gtcctatggt 360  
 gatacatgga cggatatgaa atagatcatg 390

<310> 17716

<311> 385  
 <312> DNA  
 <313> Glycine max

<400> 17716

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 tataggttgg acctccata agagtatgca gtagaactt tataggtgga gctaatactg 120  
 aggagcatga accaapagat ttgaggtcaa atcctcttca aaggggagtg gytgatgcaa 180  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 ataggcatat ttctctccac tttctcttgg acatattaga tttaguattc attatttttt 240  
 ggccttctat ttagggtccc ataatt 345

<210> 17717  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 17717

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 ccagattttac ctgggtcaac tttatcagag agaaatcaga cacttttgaa gtattcaaag 180  
 agttgagttct aagaacttcaa agagaaaaag actgtgttat caagagaatc angagtgacc 240  
 atggcagaga gnttgaaaac agcaagttta ctgaattctg cacatctgaa ggcacactc 300  
 atgagttctc tgcagccatt acaccacaac aaaatggcat agttg 345

<210> 17713  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 17713

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 gagtgtatca tgtgttggat caagtggcct cagaataatt aagaaagggg ggttgaatta 120  
 attattacta gacctttact aattaaaaat tacttttctt aggettttcc tataatgtta 180  
 agaaaataaa gaaragaaat agaaacttaa ccaaaaagtaa aagagataat taaagtgcac 240  
 aggggaaatt aaaaactag ggaagaagaa gacaaacaca caagagtatt atactgggtc 300  
 gacaaacacc cgtgcctaca tccagtcacc aagcaacctg cgtgccttga gatttcttt 360

caacatttgta aaatccttta caagcaaa

388

<310> 17719

<311> 391

<312> DNA

<313> Glycine max

<400> Unlabeled DNA in local clone

<401> 17719

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tcaatttcta aagcatccat tgcctaagat atctcgggca gtaagtagac ataaccgtaa 180

tgtgaataat catcaataat ggtgataaag tatcattcct ttccgaaaga actaacatca 240

aaagatccac aaatctcagt atgcacaatt tcaagaagct gagtgcctct tgtagctcct 300

ttctttgtat gttttgcttg ttttcctta atacaaccca caaaaatatt tagatccata 360

naatctagat aaggaagaaa ttgattcttt a 391

<310> 17720

<311> 399

<312> DNA

<313> Glycine max

<400> 17720

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ccagctaaga caccagatc ctgagggatt atggtgcttc ttcggagatt ttaacagcat 120

ttagacaccag tccgagagag aaggggtggc tcacaggggt atggaagcaa acaacataac 180

tgatcttagt gaatggctag ccgacctaga ggtagaagaa atacctagt tggggagaag 240

attctcatgg tttatccaa acgggactgc aaagagtaaa ctagatagat tttttgtctc 300

tcatcaatgg ctcaacaaat ggcaggetg cacccaatcc atcttggtac ggaacttctc 360

ggacatctgt cccatactta ttagagctaa gaacattgg 399

<310> 17721

<311> 163

<312> DNA

<313> Glycine max



<400> 17721

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cttatgcattg ttgataaact tggaggaaaag atgtatgccc aggcattgctc ggatgatctc 120  
ctctatcttc ccttctcttc ctctctcttc ctctctcttc ctctctcttc 180

<410> 17722  
<411> 392  
<412> DNA  
<413> Glycine max

<400> 17722

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gggttggggc agtgttgatc tctcgggaca atcaatgtgt accttcaca gccaggctag 180  
gattcgactg cactaacacg atggccgaat atgaagcatg tgcctagccc gtccaggcag 240  
caattgaact ccatgtcaaa ctactcaagg tgtacggcga ctacgcgttg gtaatccatc 300  
agctgagagg agaatgggaa actagagatc ccaagctgat acctacaaa gcctaca 357

<410> 17723  
<411> 392  
<412> DNA  
<413> Glycine max

<400> 17723

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ttataaaaata attaatgtca ttatatataa cactaaattt tttaattgat atttaattga 120  
catataagtt tacataatat atattgtgac aattaatttt gatctaataa tttttttaca 180  
tatataaatt tttattaaac ttgtaattct tatttaaaaa atatattgtt aaatcgaaat 240  
taattataat aaggtcaaaa acagaaattt atttactata ataattataa aaaactataa 300  
ctaaaatttat taattttttt aatctttttc taaaaatttt gagtgataca gattgacaat 360  
ccttatacgg attataaatt tatatgttta tt 392

<410> 17724  
<411> 394  
<412> DNA

<213> Glycine max

<400> 17724

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tctctctctct cttctctctct cttctctctct cttctctctct cttctctctct cttctctctct  
attttttaaa aaattttttt ttcttttttt ttcttttttt ttcttttttt ttcttttttt 120  
tcaaacatttt ttctttgatca gtttttggctg gagaagcgtt atgtttgggtc acgtcacaca 180  
tttgaatggt ttaatacagc aggaagaaat gtttaagaagg ggctttattgc aagtgtcatt 240  
gtgtttcacg taatggattc aaatagcctc atag 394

<210> 17725

<211> 334

<212> DNA

<213> Glycine max

<400> 17725

tatcttgggt taaccaaagt cccctaattg ccgtgtcatg tggcggtcca acaaaatgtt 60  
acctgatttg atgtccctgt gaataacaac ctgggtcccaa ccgtgggtgaa tgtagctaag 120  
ccccctgtgc acgtagacaa ggatacgaag ggtttgtccc cccccaaaag acttctccga 180  
cttatctaaa acccaattgt tgagactccc gttgggcatg taatcataaa ccaacataag 240  
ctcgtccccc tttctgcacc accctctcat tagaaccaag ttcttgtgct gaagcctacc 300  
catgcttgaa atctctccca tgaattcccg caacctttg ctggaatagt gyttaacgca 360  
ctttaacgca atttggttat gggc 384

<210> 17726

<211> 371

<212> DNA

<213> Glycine max

<400> 17726

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aagatccacc aaatttgaga gattcccaat ctgaggagga atcttccccc ggaatccagt 120  
atgaadaggg ttgaggtgag tcaadgaagt cactgtccca aggaagaag gaattgacat 180

acattctctca agaaatctat tgcgcgtcaa gtccaagtaa ttcaaagtct ttaaattcagc 240  
 caaacaagga attatctctc caccaaaagct ccattctctgg taagcttccc aatogaagtg 300  
 atagttgcga tcataataag cagaatgtga agtggtgagc tgaagctgaa gaagatggga 360  
 agtgccttctc

<210> 17728  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<230> unsure at all n locations  
 <400> 17727

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 gtccctttacc agctgggagc acctcaagaa ggtgttcttg gagaaattct tccctgcactc 120  
 tgggaccatt gccatcagaa aagacatttc aagcatcagc caacttagtg gagaaagctt 180  
 gtatgagtac ttggaaagat tcaagaaatt gttgtcaagc tgtctcacc accagacttc 240  
 ttgacaactc gttcttcaat atttctatgg ggacttanca acatggagag gagtatgaat 300  
 gatgctgcca atgggtggaac tcttggtgat atgaccactg ctgaggctag gaatttgatt 360  
 gagaagatgg ctccaactc ccaacaattc agtgc 395

<210> 17728  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 17728

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 tgtatgctta agaaagttat gcaaaatgct tttttttta aaaaaatggc attccaagtg 120  
 tgataaaatg aatattgggt catgatatga gtatttatat atagtatgga gtttaattta 180  
 ttctaataac atgcacttca cattcatatg acgattttca ttgtggagatt gtaaaaaattc 240  
 aaggagttgg atgtcttact atgcttaaca aactattgat ggattcataa gtgtagatgaa 300  
 tatatgaatt gtttaattat gatatgagca ttgatgaaa tatgatata atgaataaat 360  
 aattatattc ataagataa 379

<210> 17729  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 17729

ttatatttt aaatttaatt tttcaaatga ttttaagtta aaatttgat ttacatgac 120  
 tttattata gcttaagtgt cactagaaat tggagcagaa ttgaatttc tatttaaatt 180  
 ttaattgaat ttgaaatcga atttgtggag caaaaatttc actaattatg attagtgaat 240  
 tttactatg attcaaccca ctaatccaag atcaagtcca agattctcca ctaagtgtgc 300  
 ttaagtgtca ggagggcatgt aaagcatgaa ggacatgcac aaagtgtgac tatatgatgt 360  
 ggcaatgggg tgtagcaagc aaatgctcac ct 392

<210> 17730  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17730

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 cctctcttat atcaccatta agaaaagtca ttttcacatc catttggtgc aactcaaggt 120  
 caaaatgagc agctcatgcc aagataatac gaagagaata tttcttagat actagacaaa 180  
 aagtctctct atagtcgatt ccttctttct gagtaaatcc cttagcaata agtcttgctt 240  
 tgtatctctc aaagttgctt aatgaatccc ttttggtctt aaagatccat ttacatccaa 300  
 tggcctttgc cccattaggc aactctacaa ggttccaaa tttgttactc tgcattggaat 360  
 tcatctcact cttcatggca ttataccata natntgacac tttacaa 408

<210> 17731  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 17731

tgtttagaaa ctctactgtt gaaaacttgg aaaagcaaaq taaaagccat aaataatacc 60

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agaccctaaa gcttaattta agaaatagat tctgaaatcc attcaaagaa gacaaaaacta   120
gaatgtgaaa gtccaacaat atatatagat aaaattacct atctcaacct tgaaaaataaa   180
ttaagaaaat aaaaagagga aactagctga ttttcttgct ttgccacaca agtataaaaa   240

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<I16>      17733
<I11>      327
<I12>      DNA
<I13>      Glycine max

<I23>      unsure at all n locations
<I40>      17733

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TCTCTTCAA GAATGCCATT ACGAAGTGGT AACCCATAAG TGATAGCTAA GGAGAGAAGA      120
AGTCTTACTA TTATGGACCT GATAATAGGT GAGAAAGTCT CTATATAATC AATTCTATAC      180
TACTGATGAA ATCTCTTGGT CACTAATTTG GCTTTTCTACT TTG GACCGA GGCATCTAGG      240
TTTCTTTTAA CTTTCAAAAAT TCACTTACAG TCAATAGGAA CTCTATTATC GCGCAAGGGA      300

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ataagcaacc aagtgtcatt tttaatac

327

<210> 17734  
<211> 414  
<212> DNA  
<213> Glycine max

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tataactgtt gcaaggggtt gtggcttggt ctctctgtct gaccaccata bagacctttg 120  
ccctcccatg bagcaacctg tagcaattga gcagcccgaa gcttatgctg caaatattta 180  
taatatagacat cctcaacctc agcatcaaaa tcaaccacag caaaacaatt atgacctctc 240  
taggaacaga tacaacctg gatggaggaa tcaacctaat cttagatggc ctagacctca 300  
gcaacaacaa bagcagcctg ctctcttctc tcaaaaatgc tcttggccca agcagaccat 360  
acattctctc accaatccaa caacaacaac agctccagaa acagtcaaca gttg 414

<210> 17735  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 17735  
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agagagcaag aaatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120  
ggaagcggta tctgcccgtt agttactcaa gggacttgaa attcaagctc caaaaaactaa 180  
cccaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaatattga agaagatgag gaggttaacta tggctcgatt tcttaac 287

<210> 17736  
<211> 343  
<212> DNA  
<213> Glycine max

<400> 17736  
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ataacttttc acccggatgt ccgattatgg cgaatcacat atccagacgc tcaaaataga 120

acaacggaag ctcttgagaa attctaattg tcataacttt taactcggat gtcgattca 180  
 ggcgattac atctcgaggg gctcgaaaaa gaacaacgga agctctcgag aaattcaaat 240  
 ggcataact ttccacactg atgtccgatt caggatcata atatatcaag acgctcgaaa 300  
 tttatgacg gaactctggt atctctgaa tttctctggt

<210> 17737  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17737

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 gttogaagac aacctttctt ctccctctgt tggcttggtt agcatagctt ttacttttcc 120  
 tctcaatttg atctttgaat ctctcatgaa gcttcttcaa atagtcgagc ttgcttgagc 180  
 ctcttttatg cttaaaaaaa gaaacattag gcaaaaagatc aagaggagtt agtgggttaa 240  
 aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaacagct ctattgtaag 300  
 caaattcaac atggggtaaa caagcttccc aagtttttaa gttattcttc aaaactgtcc 360  
 taagcaaaagt tcccaaagtc ctattaacaa c 391

<210> 17738  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 17738

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 aatttgtaac tgtcgcaaga gtctgtggtt tatgctcttc tgcgaccac cctacagact 120  
 ttgccccttc catgcaacaa cctggagcaa ttgagtaged tgaagcttat gctgcaacaa 180  
 ttacaaatag acctcttcaa cctcagcagc aaaatcaatc acagctgaac aattatgacc 240  
 tctcagctc cagatacaat cctggaatga ggaatcacc aaatctcaga tggcttaaac 300  
 ctcaacaaca acaacagcag cctgctcttc tcttccaaaa tgatgctggc ccaagcagac 360  
 cctacatttc tccaccaatt caacaaat 388

<210> 17739  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 17739

atggaaggt gaaagcttg gaggaaagag gtaggata gtaggtggg aggattttt 120  
 gaaattatc tgggttaact ttatcagaga gaaatcagac aactttgaag tatcaaaaga 180  
 gttaggttta agacttcaaa gagaaaaaga ctgtgtcacc aagagaatta tgagtgaacca 240  
 ttgttgagag tttagaaaaca gcaagtttac tgaattctgt acatctgaag gcatcactca 300  
 ttagtctctc gcagccatta caccacaaca aaatgggata gttagaaagga aaaacaggac 360  
 tttagaagaa gtgtctatgg tcatgtctca tgcctaaaga attacctata atctttgggc 420  
 tgaagccatg aa 432

<210> 17740  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17740

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 caattctaga actaaattgc tgggagtttg aagccatctt ctcaattaaa tttctggctt 120  
 cagcaggggt catgtctcca agggctccac cattggcage atctatcata ctctctctta 180  
 tgttgctgag tcttccataa aaatattgta ggagaagctg ctttgaaatc tgggtggtgag 240  
 ggcaactaga atataatttt ttaaattctc ccagttatc atataagctt tctccactga 300  
 gttgtctaat gcttgaaata tctttcttga tggctcgggt cctggaagca gggaaattgt 360  
 ttctaaagaa tactctcttg aggtcatccc agctcgtgat ggaccttgga gcaaggtaat 420  
 at 432

<210> 17741  
 <211> 281  
 <212> DNA  
 <213> Glycine max





<210> 17744  
 <211> 427  
 <212> DNA  
 <213> Glycine max

aaagattgggt ttadadgaat aaaaadagca aattgaattat cacaatadca attgaattat 12  
 aactcttccac aaaaccttaa ttcttgaaga aattgtttga tccacatgag ctacacatgta 180  
 atcatagcca tagatcgata ctacagttct gcactggacc gagcgacaac agtttgtttc 240  
 ttgtctttcc aagagattag attctctcca atgaagacac aataacgtga tgtaaatctc 300  
 ctatccatgg gacatccaac ccaatccaac tcacaatata ctgatagtgt cgtactaccc 360  
 ttggcttccat acaacaaccc ttgtccacga gctttcttaa catacctcag aatacgcctg 420  
 acaacat 477

<210> 17745  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 17745  
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 caatcaattt aataattttc tttaaacgtg caagataaaa ttgattgcaa taaaataaat 120  
 aagataaggg aagaaagaat tgcaaacctg attttatactg gtccggccac ttcattgtgc 180  
 taagttcagt ccttaagcaa cccacttaag attttccact atctctgtaa atcatttaca 240  
 gactttgaac acaccttggg attccttacc ctgtgtttca agattttcac actccaagag 300  
 acaccccgtc tcttgattac aactgagttt ctgagatgaa cagaaagata tctctccttt 360  
 aagagggatg atacaaattg aagatccctag aggaaatttc ctctttttaga gatgataata 420  
 cagattgaag 430

<210> 17746  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 17746

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tgttgatgg cttcttctctg tttdaagct caattggagt cttgtctttt acagacttag 120

ttgcttctt ttcttcttctt ttcttcttctt ttcttcttctt ttcttcttctt 180

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ttcttcttctt ttcttcttctt ttcttcttctt ttcttcttctt ttcttcttctt 360

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<210> 17747

<211> 352

<212> DNA

<213> Glycine max

<400> 17747

actaagctgc tcgggggatct actacgcttt agaacttggc atgctgccta gcaatttaca 60

ctaacacaga gaatgagcta ttagegatag cttttgctct tgagaaattt cgcacatatt 120

tgtttggtaa tcgagttatt gtttatactg accatgcagc tctgaagtaa ctgttgaaga 180

aggctgaatc aaaacctata ttgatcaagt ggatgctatg gatccaaaag tttgatttgg 240

agatccgtga tcagagcggc tcacaaaacc tcatggctga ccacctgagt aggattgagc 300

gtgcgcctga agactcacc attacggatg atttttcaga tgaccatttg ta 352

<210> 17748

<211> 321

<212> DNA

<213> Glycine max

<400> 17748

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ttcacgggac gaagacactg acaaaaaact atcttctctt tcttggacaa agtatggcag 120

gctgggggca agtaaaattt cttacaatca gaccttggat gcagctgaga tcgcataacc 180

atatcagcta catcttcaag agtattcaag ccactcttca tcttgccttg aatgttaagg 240

aggctcccaa tcacacttg acaatacatt ctccacatgc atgacactcg tacgatgact 300

agcgccgaga tcaagccagt a

321

<210> 17749

<211> 377

<212> DNA

<213> Glycine max

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tttataggty aggttatctt tcaactgtac ctctccactt gcaagaatat gtgatggatc 180  
cgggttgtac cgtctcagtt gagagacatg gaacacaggg tgcaaattcg ataaactcgg 240  
aggtaaggcg atatgataag ctacaggccc aatctctctc aaaatctgat atggacctag 300  
atattgggtt gtaacttccc tagccttgag agctcttcca cactccgtta tgggagaaac 360  
cttcacaaaac catgttc 377

<210> 17750

<211> 260

<212> DNA

<213> Glycine max

<400> 17750

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gttggaggac cttttgaggg cgtgtgtctt agagcaaaat ggaagttggg agagttttcc 120  
tgccattgat agagtccact tacaacaata tgtttcactc taccattggc atggctccct 180  
atgaagattt gcatggata aggtgtagga cactctatg ttggctagat cctgcagtaa 240  
accttacctt atgacctga 260

<210> 17751

<211> 363

<212> DNA

<213> Glycine max

<400> 17751

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aacaatttca gaatttcaca cactgtttca ttggaagaga caaatctgtc tccaacaaca 180  
 aaactgaaa tctggtcttt caattcaatc cagctcctcc ccgagtcact tttattttta 240  
 atgctctccc tcagcttctg ttgactggca aaatcctccc agtttctctc agcggcctaa 300

377

<210> 17752  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17752

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 gctatacgag acatctttcc aaacaaaggc aagttagcca taactcgggt gtgctttttc 120  
 ttccatgcta tatgtagtaa agtcattgat cctgtcaagt ttgatgagtt ggaaaataag 180  
 gcgcgaatta taactgtcca gttggagatg tattttcccc tgctctctta gacatcatga 240  
 ttcacttgat tgtgcctcta gtcagagaaa tcaaatgttg tggttcggct tatctacgga 300  
 ggatgtaccc ggttgagcca tacatgaaga tctntaaagg gtatacaaaag aatctttatt 360  
 gctaggagc atctatt 377

<210> 17753  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 17753

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 artaacaact tccgtttgac cctcgggttg tgggtgacaa gtggttgaaa ataacaattt 120  
 agtgcctaac ttgctccaca aagtcctcca aaaatggctt aagaacttag agtccctatc 180  
 actaacaatg ctcttggca aaccatggag tctcacaatc tctttgaaaa acaaatcagc 240  
 cactcgggaa gcatcctcaa ttttttaca tggataaaaa tgagccattt tagaaaaact 300  
 atcaacaacc acaaaaaatgg aatctctacc attgcttgtt ttgcccaccc ccaaaaacaa 360

atccatggat aaatca

376

<210> 17754  
<211> 334  
<212> DNA  
<213> Glycine max

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taagacctca tttagctatca ttacaccatg gaggatatgt ctgcctttga ggaagcaat 120  
ctgcctttca tcaattaagt gaggcagcac aagagccagc ctattagcca ggaatttggg 180  
cattattttg taaacacacc ctatgagaga gatgggtcta tagtcattaa gagattgggg 240  
gttattgggtt ttgggggatga gggctatgaa ggatgcatta ctccctttgg ggaatctgcc 300  
attaatgaag aattcatcaa agaatatgat aaaa 334

<210> 17755  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17755

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ccgattgagt catttaataa ttcgaaacgc tcgaaattga atacagaagc totaagcaaa 120  
ttcaaatgac aataactttt gactcagata ttcgattgag tcattttata atttgagacg 180  
ctcaaaaattg aatgcaagag ctctcaccaa attcaaatga caataactct ttaactcagat 240  
gtccgattga gtcccgtaat atatcttgac actcaaaatg gaaaacagaa gctctgagca 300  
aattcaagcg aaagtaactt ttgactcaaa tgcctcgattg agtcatttaa taattaaaga 360  
cgctcggaat tgaatataga agctgtcaca aaattcaaat gacaataact ttatac 416

<210> 17756  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17756

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 attgactgat gagtcgagta ccatatagaa tgtctggtct tgtggacgtc aaataacaca 180  
 gattacacac gattacacac gattacacac gattacacac gattacacac gattacacac  
 gattacacac gattacacac gattacacac gattacacac gattacacac gattacacac  
 gaagattcga aatttcctta gccctacgc aaataacaa tagtatgaca ttaacacat 240  
 atc 300

<210> 17757  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 17757  
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 gctcacctcc ttgaaatgag aagctagagc tttagctacac accccctata atagctaagc 120  
 tcaaccccat gaaaaaatac aaaaaaaaaat ccttactaca aagactactc aaaatgcctc 180  
 gaaatataag gctaaaaccc tattctacta gaatggccaa aatacaatgc ccaaatgaag 240  
 gaaaaaccta ttctaataat tacaagata atcggggtca tacttagccc atggggtcga 300  
 aatctacctt aaggctcatg agaacctag ggccttcctt tggatctctg gccaatata 360  
 cttggagttc tctatccaat gcccttgctg gataggattg catcattatg tacatatt 418

<210> 17758  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 17758  
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 ggcgtattct ttgaaagaa tctggccttc tttttgcaca tgtctatatg ttgcactcta 180  
 tctgaagana ttatactgac actgcctaac gaaggcaacc actaggctcat tccaagaatc 240  
 gactcgggaa ggttccaagt tagtgcacca ggttaacact accccagtta gactttctg 300

gaaggaatgt atcagcaatt ccttatcttt tgtgtatgcc cccatcttcc gataatgcat 360  
 ctttagatgg ttcttggggc aagtagtcc ctcgtacttg tcaaaag 406

<210> 17759

<211> 395

<212> DNA

<213> Glycine max

<210> unique at 6.1 n. locations

<211> 17759

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 ttaaaactcaa acttcaaagg gataaagtac ccaaatttgg acaatctatc aactactgta 180  
 aaaaatgggtg taaatccttg tgaaggaggg aattaaacaa taaagtccat tgcctatgtct 240  
 tcccatattt gttgaggaat gggaagaggg tgaacaacc cagctgacaa aacatgatca 300  
 aacttagctt gttgacatat ggcacattcc ctacaaaatt tactaatatc acttctcata 360  
 ccattccaat anaattgagc accaattcta gctac 395

<210> 17760

<211> 383

<212> DNA

<213> Glycine max

<400> 17760

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 taaaaactat aaaaactaca aaaacaaagg tcaacatgta aatactatac aactaggcaa 180  
 acaattttac ctctttttgt tcaagtatct tatccaatc tttagctctt ttatccaatt 240  
 tttcttgaag ggatgagtgt tctagctcct ttgtgtcttc ttccatttca tctacaaaca 300  
 aggtacatac atttaaaaaa catcaataat taggataaaa tgcgaatgca caaagagaga 360  
 aaaa'gaaaa ttaaggagcc caa 383

<210> 17761

<211> 373

<212> DNA

<213> Glycine max



<400> 17761

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ctctgctttt tcttttggc cagttctta ttacgttta agtttttgt agactgtgag 180  
ctctgctttt tcttttggc cagttctta ttacgttta agtttttgt agactgtgag 240  
ctctgctttt tcttttggc cagttctta ttacgttta agtttttgt agactgtgag 300  
aggtatataat tgcagctggg acaaagacaa agacagtttt cagatttgag attgagcaca 360  
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<210> 17762

<211> 340

<212> DNA

<213> Glycine max

<400> 17762

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tgtaatcgat tacatgggtt tggtaatga ttaccagtta caagtcttga atagaaagtc 180  
aagagatata actctttcaa tggttttcag ttctttctca aggttataac tcttccaatg 240  
gttttcttga ccacacatga agagtcctata aaagcaagac cttgacttgc atttcaaaga 300  
gaattacaac tcttacaact ttttgaacat ctctttgaac 340

<210> 17763

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17763

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tgtctgtgg tctatntaa gaggtttaat ctttttaata tttttaataa aattgaaatt 120  
ataattttt taaaataaga ttgtttggha tgaggaaatc aaaaatgcctg caattgaggt 180  
tatgtctgt ttgatattt aagcatacta acttttgatc tgaatgcgaa aaattatata 240

tatotttggto ctttaaatata acattatatt aatttgggtt gtotTTTTTT ataaaaagttt 300  
 ttctaagttg acttttgcac taattttttt acccagatat ccttagttat totatagtac 360  
 atgttatgta ctactgaaca gataaatgta taatatotca toactactat aaaaaagato 420  
 <400>

<210> 17764  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 17764  
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 cttatttcca totcactttg ttttatgacc acaacacaga caaggagtga ggcatagttt 120  
 taaaaaatta aaataaaaga tatatggtag gtaaaaagtt aatagtatgc atattoggtt 180  
 aaaaatataat aataatgtag tttataatgt tagtcaagga ataaaatagt tcaattgtaa 240  
 aqacaaaaag taggcatatg gttataataa gtatacatga ttttttttgc tatatgtttc 300  
 gaatgtgaat ggtaggtatg atgaactaat ttatataatt aaggggtgtg tatotttttt 360  
 ttacacaaaa gagattttaa ttaaaatttt ctattattta attaaatttc ttgatat 420

<210> 17765  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 17765  
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 toatnagttg aatagttaag gtaggacca ctttaacttt cactaaaata agcaattgga 180  
 ttgcctttctt gcatcaacac agccccaatc caaacatttg aagcatcaca ctcaatttca 240  
 aaagattttt gaaagtttgg caacgaaagt atggggggcat tagttagctt ttgcttaaga 300  
 agatigaaag cttctctttg tttctctctc catttgaaac caacattttt cttgagcaat 360  
 toatigadad ctctt 375

<210> 17766

<40> 17766

<L10>	19767
<L11>	343
<L12>	DNA
<L13>	Glycine max

<400> 17767

0101	17763
0111	348
0112	DNA
0113	Glycine max

430 17768

— 2 —

ttcaacttttt attcaagtta taaattacct taataatgaa cttctttaaat attgattcaa 130  
 ataaaaacaat ttgaatataa atataaagca ataataaaca aaggagatta aggyaagaga 240  
 aagtgcacaa tcagatttat actggttcgg ccacacccct gtgcctacat ccagtcacca 300  
 atttctctctt tttctctctt tttctctctt tttctctctt tttctctctt tttctctctt 360

<210> 17770  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17769

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 agaattcaaa ctgacccac caaatatctt gattatcaaa ccagtttccac atcagccatt 180  
 gttaccaatc atccagggac taaacacccct atttctctctg tgatttctca taacaagctc 240  
 tcttcatctt atcacagctt cattctttaat gtctctgcta attctgagcc taagtcttat 300  
 aatgaagcct gtaaacatga ttcttgggtt caagctatgc atgatgaaat ttctgctcta 360  
 gagaggaata atacatgggt gctcactgat ttaoctcaac ataaaaatg 409

<210> 17770  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 17770

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 tctcagatgg tctagccctc aacaacaaca acagcagcct gctccttctt ttcaaaatga 180  
 tgctggccta agcaagccat acattctctc accaatccaa caacagcaac agccccagaa 240  
 acaacaacaa gttgaggtc ctccgcaac ttccctcgaa gaacttctga ggcaaatgac 300  
 tatccagaa atgtagtctc aacaagagaa cagagcctcc attcagagct taactcgcca 360  
 gatccgacaa t 371

<210> 17771  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 17771

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 tgtttggata aaaaaattaa atttgtgaga gagaaagaaa atgagtcgcg agtttgagaa 240  
 agagatttcg aaaactttta tgttggaaga gaagatgaat gtttggtata aaggaaatac 300  
 aaaaactttt tagaaggaaa ttaaaatttc acatttttgg ttgtttaa atgtgtttta 360  
 atttccaaaa atttaaatte ttcataaaaa atatccaaat 400

<210> 17772  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 17772

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 tctctatgga tatggaggta caggaaaaac atacatttgg aaaacacttg caagttcaact 120  
 gagagctgac aataaaaattg tcataatggt agccttttagc gccatagcgt ctctgtctatt 180  
 gtcttgatgt aaaactgcat attcacaatt taaaattcca gattgagttt ttgaagactc 240  
 aacttgcaag atccatcatg gaactcaatt agctgaacta ttaactcaga caagctctgat 300  
 catttgggat gaagcaagca tggatcacat attcagtgat gaagcaattg atcacagtct 360  
 tagaga 366

<210> 17773  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 17773

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gtaaaaattt attgtcgctt ggattggctc atagattcaa cattcaattt cgagcgtctc 120  
 gatataattac gggectcaat cagacatcgg agtaaaaagt tattgtcggtt tgaattggct 130  
 cagagcttca acattcaatt tcgagcgtct cgatatatga ccggactcaa tcagacatcc 240  
 gattttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
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<210> 17774  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17774

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 aacgagaagg tcgaaattga atgttgaagg totgagccaa ttcaaaagac aataactttt 120  
 taactggatg totgattgaa tctgttcata tatcgagacg ctcgaaattg aatgttgaac 180  
 ctctgagoga attcaaacga caataacttt ttactcagat gtctgatata gtctcgtaat 240  
 atatcgagac gctcgaaatt gaatgttgaa gctctgagca aattcaaacy acaantaact 300  
 tttactcgga tgtctgattg agtcccgtea tacatcgaga cgtccaaaat tgaatgttga 360  
 agctctgagg aaattctaac gacaataact ttttactcgg at 402

<210> 17775  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
  
 <400> 17775

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 agaatagtga ggcttcaatt aaaaacctag aaactttggt aggcbaacta ccaaggcaac 120  
 taatagacca ttttggaggt tgattttgag aaaacacctt atgaaatcct aaggagcgtt 180  
 ggaagcctat taatacaaga agtgggaagg tttttgggag ttgtgtcgat gataacttgg 240  
 ctaaaagaca tcaagtggat ggaggcaact ttatcaaggg taagaaaaat gatagtgaga 300  
 gtgaagagga atccaattaa aaagatagag tgtatagaga ataagactca taatatgagg 360

gtg

363

<210> 17776  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 17776

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caattccatca gtgggctatc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
gacagctttc caggttctgc tctccagtga tttagaggaag gccaccattc ttgctttcca 180  
gtattccatag ttggttccat caagaattgg tggctgtgtc actggctctc cttctttctc 240  
catgttccatc agattttatc tccctaaatc tcaactctgag atttcgagcg ttggctctgc 300  
atccaattga aattctgata ctggggacag atgtctgtac ggatgccacg acttcacgct 360  
tcataacact cagattgtat 380

<210> 17777  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 17777

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aaccgctgtg cgcagcttcc cccacatgg accttggcag gccagcactg agcaacatgc 120  
accacacttt atccaatag gacctaaaca tacggctcagc acaaccatta tgcctgaggtg 180  
tgccaaggac tgtcaagtgc cttagatac tcactttccc tgcaaaacac attgaattgc 240  
cttgaaaacag actacaggcc attgtcattg cttaaaaactg ataatatagc accaagttga 300  
tttccaataa gaggacgcca cttctctacat ctttgaaaag cttctgactt atctttcaaa 360  
acatacaa 363

<210> 17778  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 17778

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 gtggpatctc caatcacctt tctttctttt ccattccggt gtcattgato ttcagaaga 120  
 aaaaggctct attgatgaag aagatccaat gcttacaagc totatatgga gctacatcag 180  
 . . . . .  
 taaggatctc atgtatagtc tataatttag atgtatctca atgtatctca gctaaatca 240  
 tcaatttggg tcttgcaaca acattatgaa ctaaaaaga aaaatgtcca ataatatcaa 300  
 ttacctttga agtaagggtc 330

<210> 17779  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 17779  
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 tctcccccat atcaactatg cagcttgagg tcaacatgaa tggccttccc aatattacaa 120  
 ggatgtcagt atcttcagag atatccatta ccacaaagtc tgtcgggaag ataaaatggt 180  
 ttaactctgac caaaacatct tcaattactc catatggcct ggtaatggag cagtaagcta 240  
 attgtaaagt ccttcagagt ggcattatct ccaactcttc caatcttctg cacatggaga 300  
 gtggcatcaa attgatactg gctcccaggc caataagagc ttttcccaca ttgacttctc 360  
 caattgaaca aggaatcgtt acactcccaa gatctttat 399

<210> 17780  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 17780  
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 acaaaagctga gctgcctcga gagtataaag ataactccac cctcaatgac ttagaataat 120  
 ctcttttttga tgcagaagga caatccgatt tgaggacaaa tctctctcaa gagggagaga 180  
 atgacgatga catcttcaag acaaaagca aggatccact tgaaggactt ggaggacctt 240  
 tgacaagggc tacagcaaaag aaagccaatg aagctcttca acaagcgctt gcataactat 300



atgaatacaa gccca

315

<210> 17781

<211> 409

<212> DNA

<213> Glycine max

<400> Anal. of 17781

<400> 17781

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taactcgaaa gtaacttcca cgaatgtcaa catcgcaatt ctcaaatctc ttgggacaa 120

acatcaaagg attatgocaa accttaggat ctctccctat tgcacatgca tttactatga 180

tcttgattt tttctttatg aaataacct caatagtaac atctctctga ctctcagag 240

gtaacgagca cgggtgcaac ggggtgtaac gtagcgtctc ctccaccacc atattcaagt 300

aagcagttt ttctaaagta attctctcca cgtgtctgtt catcccaact acatttctca 360

gtccatcttg aagtctcttc atcacactt gatgcctcaa gagttctga 409

<210> 17782

<211> 347

<212> DNA

<213> Glycine max

<400> 17782

tgtcttctct agataacgtg gtgccacacg agcactgttc acttgggata gtccccacag 60

tgtctctcgg gtgtcttcaa atcagaaaagc acagagaact gtctctgggt gcacctattg 120

cacatataca tcttggggca gaggtctctc ttgtaatgga tctgggcaca aatcattgac 180

ttcaaagggt ggaactcggc atgccttttg ttccatctac accttcttg agggcacgaa 240

tatctctttg tccactatc tctgcacct aaaaacaaca cattaacttc cttctctgtc 300

ttttcttcat gggatgogca aagctgcact tgttttgact ctcccca 347

<210> 17783

<211> 362

<212> DNA

<213> Glycine max

<400> 17783

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 aacataaaaa ggggaaaggg aatgtagtgg ctgatgcact gtctaagaga catgctttac 120  
 ttgctatgct tgaactaaa ctgtttgggc tggagtcttt gaaagacatg tatgtgcattg 180  
 atgtgactt ttttgactt ttgtttttt ttgtttttt ttgtttttt ttgtttttt 240  
 atgtgtttt ttgtttttt ttgtttttt ttgtttttt ttgtttttt ttgtttttt 300  
 ct 362

<310> 17784  
 <311> 329  
 <312> DNA  
 <313> Glycine max

<400> 17784  
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 ttggagagagc ttctgttctg caattttgag cgtctcgata tattatgcgc ctgaattgga 120  
 ctctcgtgtg attagttatg accatttgaa ttctcggaga gcttacgttg ttcaatatcg 180  
 agcgtctcgg tatataatgc gctgaatct gacttccgtg tgacaagtta tgaccatttg 240  
 aattcttcca gagcgtcctg ttgttcatat ctactttttc tatttattat gcgcctggat 300  
 tagactttcg tctgatatgc tatgacct 362

<210> 17785  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17785

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 aactgggcat gcatgcacc atgtggacac tcaagcataa agtttttatg gtcagtgcac 180  
 actagggtct aagatcact ttccctattt aagtcaacc agtgttttca aaatatgtct 240  
 tttttcaat ttatgcatt atccgagtc ctcttgctgg ttcttttttt ttctacagt 300  
 attcaccctt tacgtgtata cacttctct ttttcaaaa aactgttat gatagtgaat 360

tcattttca

369

<210> 17786

<211> 371

<212> DNA

<213> Glycine max

<400> 17786

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catgattaag ctaagcattc tcttatctct cttaccaaat tataattagt tcaagttcct 120

gtatgattgc aatgtgtaag tggtccttaa tgtttaaagg tcaaaagata ttgattctct 180

cctttttctt tttctgtag ctatgttgca ccagaatatg catgcactgg aatgctgact 240

gagaagagtg atatttatag ctttgggata cttatcatgg agataatcac cggaagaagt 300

cctgttgatt atagtagacc gcaaggagag gtttagaggg ctcaccaata aaagaccata 360

gttaacattt a 371

<210> 17787

<211> 368

<212> DNA

<213> Glycine max

<400> 17787

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gctaaaccaa ggaaactcct aatctcaaac actaacttat gactctccca actcatcacc 120

acctctacct tgggaaggatc tactgctatc cctcccctag atataaatg ccttatgaag 180

ctcactctct ctagccaaaa ctcatactcg tacaacttag catgtagtct gttgtgcttg 240

aggggttgca acacaacct cagaactctc tcatgttctt ccttgtctt ggaatacacc 300

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atgtagtc 368

<210> 17788

<211> 368

<212> DNA

<213> Glycine max

<400> 17788

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catggtttgt atccggattt cgggaatgag ccaagaaatc ttagaatttc actagccagt  180
ctgggtgtgt cttggtgtgt cttggtgtgt cttggtgtgt cttggtgtgt cttggtgtgt  240
ctggtgtgtgt cttggtgtgt cttggtgtgt cttggtgtgt cttggtgtgt cttggtgtgt  300
gaagacct                                     368

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<210>      17739
<211>      436
<212>      DNA
<213>      Glycine max

```

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<220>      unsure at all n locations
<400>      17739

```

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tctgtgtgat ggttgcatat tgcaaagcac ccacaacaga tctgtataga gtgggatcag  180
aaaaagactc atacctgat ttggttaact tgcagccacc aaccattgga gaggagatgg  240
aattagcttc atccatcttg gttttagtca acagatctct tgtatacttg gactgagtta  300
gaataagagc acattaggct gaggtctgac ttcaataccc agaaaataat ccagattacc  360
taaattcctt atagaaaact cagaattaag tntagtaacc aggatttaat gaaattagga  420
ttgttgcttg tgacag                                     436

```

```

<210>      17790
<211>      404
<212>      DNA
<213>      Glycine max

```

```

<220>      unsure at all n locations
<400>      17790

```

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ccgaacaaat gtggagatag gacatttccc ttgaugctcc tcaattacac gctcgtgaga  120
ctgaactctg cactcgagag tggaggacac attaacagcc ctgacaaata gcatccatgt  180

```



tectettatg

430

<310> 17793  
<311> 436  
<312> DNA  
<313> Glycine max

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tgagaacttt ctaacaaaat atttcccaga gctctaaaact gaaaagggaa aacttgcaat 180  
ttcttcttata ctttcttcttata ctttcttcttata ctttcttcttata ctttcttcttata ctttcttcttata  
actctaaactt atggtttttt agagacctt cagctgaaca tcttcttga tgggttaagg 300  
ctgtagtcaa agcagttact cgaagcttct ataggaggaa aaattaagtt gaagacacct 360  
gagagaagca tggacttaat tgaataatg gctgtcagtg accatgcaat tctgcatgat 420  
atagttcata tctcta 436

<310> 17794  
<311> 417  
<312> DNA  
<313> Glycine max

<400> 17794  
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agtcccgaag aagacgggc tccagtgat aaaaaatgag aaggaagagt tgattctac 120  
tgggtgagc aacagttgga ggtctgcat tgactacagg aggtgaacc aggttaccac 180  
aaaggacctt ttctctctgc cttcttga tccagtgctt gaacgcttg caggttaact 240  
tccctactgt tctcttgatg gttttcttg ttatatgca attactattg ctctgagga 300  
tccgaaaaag accacattca cctgcccctt tggcactttt gcttatagga ggatgccttt 360  
cggctgtgct aatccccctg ctaccttcca ggggtgcagc attagtattt tccgtga 417

<310> 17795  
<311> 352  
<312> DNA  
<313> Glycine max



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<112> DNA  
 <113> Glycine max

<10> 17793

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 ttttttcaat tagctctgtt gtttttttcg gggttttcag ttttatcttt cccctacag 120  
 aagcatctaa cagttgcttg gtttgtggtc tcagctatc tataaacata ttcaattgga 180  
 ttggtctgga aaaccatga gtgggagttt ttcttaacaa gctctgaat ctctccaatg 240  
 ctccactcag agattcatta cgaaactgat gaaatgaaga gattgcagct ttcccttcta 300  
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<210> 17799  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17799

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 acttcagcga ttctctgtaa atccccagat tccactccgc ttctctctta aagatgatcg 120  
 tcacgttggc attgagaatc cagcttatga aacttgggag caacaggatc aagtgtctct 180  
 cacatggctt caatcgactc tctctacgtt gattttatca cgagttctag gatgcaccca 240  
 ctccatagag gtttgggaat gcattcacga ttatttccac aagcaaacaa tagccacagc 300  
 tagtcaactt cgcactcaac tntgtctat gacacttgca ggcaactcaa taagtgaatt 360  
 tctgtcacag attcgagcaa ttctgattc tctagcttct gttggaagcc ggattatgct 420  
 tc 422

<210> 17800  
 <211> 374





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 agaaaacttcg aactttgttt ggagttgtca gttgttgaca ctccataacc gatttcactt 180  
 tagttagctc catcgcaacc cgtctcttag aaatcagtg ccccaagaa tgcaccttct 240  
 acacatctct caagtgcctt taatgtctct ccttatctct caggtacact aggatatcat 300  
 caatca 378

<210> 17803  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17803

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 cccccacttg aaatttgaaa agaagatttt cgaggatttc ataaaattgt gcataaacia 120  
 aggtgtcata caacttgaac ctttgcatag tgagtaagat tcagatttta ttagagtgac 180  
 tgaagttctt gaactctatc tccgacatca aaccacacac aaccttttca taggtgtatt 240  
 ctataaagcc cgtgcgttaa agaccatgca cgtctatccc ggtatagtga acgctctaga 300  
 natntttgcc caaaatttca tatgaagcgg cccccacttt aacattcaca taggttgagtc 360  
 tatcaagagt actcctgt 378

<210> 17804  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17804

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 attggataat ttcttcattt ggttttgatg aaaatccata ccacaagatt agtggggagta 120  
 aaatatgatt tcttgcttta tatgtagatg atattttact tgcagccaat gatgggggtt 180  
 tgcacatga ggtgaacaaa ttatctctta agaattttgg catggaggat ataggtgag 240  
 catcttactg catggacatt aagattcata catatagacc tcagggtatt ttagggttat 300

cacaggaaac ctatattaac aaaatttttag agagattntg gatgaaagat tgtttaccaa 360  
 jgtttgctcc ca 372

<210> 17806  
 <211> 423  
 <212> DNA  
 <213> Glycine max

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 gaaagctggt tgtctttcat caattaaggg aggtataacc tgtctcaacc tgettgttag 120  
 aagcttagct atcactttgt acatgcagcc tatcaaggat attggtctat aatcatttag 180  
 ggaatgagga tgggttaactt tggggataag agccaagaaa gaggcattgc tgcctctagg 240  
 gaaacaaccc ttgacatgga actcatccac aaatctctctg gaactctggtt ttagcacaat 300  
 ccagaattcc ttaataaaaat tgaaattaaa accgtccggc ccagggcaat tatctccacc 360  
 acaact 366

<210> 17806  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17806

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 cctegttaac ctatcacaac aataattttt attaaaaaat tgacaatata ttaatagtga 180  
 actaaaatta ttaaaatttt aaaatgtgag agatcaaatg taaatgtgta gtataatatt 240  
 tgaataatca aaattacaca atcataaaat tacaagaggt tttttaaaccc tattatgtat 300  
 tcaaaattaa agaataatat taaaaaatgt tataattttc tatactctat tatgcacttc 360  
 tctatcttta aaataaaaata taaacytaaa aaaaacaaca taatttgata cataacgtaa 420  
 taa 423

<210> 17807

<211> 370  
 <212> DNA  
 <213> Glycine max

<400> 17307

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 -  
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 -  
 -  
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 aacttcattg gatcccccac agtttagtct cgggtcgaga cccattattc atcagccgct 240  
 ttgtgcaaga gttgttcgca ttgagtggct cgaaacttca tatgagtcca gctatcacc 300  
 cgcaatccga cgggcagatt gaggtgatga acacggtggt tgagcaatat ctccgagcat 360  
 ttgtgcactc 370

<211> 17308  
 <212> 364  
 <213> DNA  
 <213> Glycine max

<400> 17308

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 aatacaactat gcttgggttct ccagatcaga atgggtgtggc agaacgaaga aatcgaaact 180  
 tattagacat ggtgagaagc atgaagagta atgtaaaagct tctcaattt ttgtggattg 240  
 atgctcttaa gacgggtgca tatatattaa accgagttct aaccgaggct gtctcaaaga 300  
 cacttttga gttattcaag gattgaaaac caagtttgcg acatatacgc gtttggagat 360  
 gctc 364

<211> 17309  
 <212> 374  
 <213> DNA  
 <213> Glycine max

<400> 17309

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agatgaagaa gattgatggg attggagtggt tcaagaagat aagtatgatt atcttcttta 180  
 ttttgaagaa gatgatgaaa ttgaacaacc aatcatagag gaacatatta caccacctgc 240  
 cccaccgaca ccaaggctgg atgaaacatg ttcaagttag aggacaccgc gactaaggag 300  
 gattgaagaa atttatgaw taacatataa cctaaagaa atttatgaw atttatgaw 360

<211> 17810  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 17810  
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 actatagcgt attagcatca ctaagaacaa gaaatgacaa acaaccatac tatctatgca 180  
 attaaggcaa aacaccatac tacaagtgat gtagctccat gtggagcttg caggctctga 240  
 atcttcttca tcaatggagt cctttacttc ttgaagacca tggcagtgaa atggaaaagg 300  
 aagaaagatg attggagatg ccacatcaag gagaagatga gtcaagaaga agctcaccac 360  
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 g 421

<210> 17811  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 17811  
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 agtagacact ccccccagaa gtcaaaaacag caacatggta tgaaccgttt gatataacct 180  
 taacaaaact ttgtttgaga ttctcttcag acatgaactgc tttatccgtg tcatgtggat 240  
 ttaactagtg tgcatacttg ccacttccca ttgnaaaaac cttyccgatg ttagagagag 300  
 ctacagtcga cattcttaca catgacactt gaa 333



nttoototgg ttgtttact ggggtttcca agagttatag ttatatgaga agaaattgaa 60  
 gpttcaattt tgtattgtct ttgtgggatt cactttttct tctccatgaa taataatttg 120  
 aaaaatccaa ttgttaaaggt gggggcaact gaattctttaa ccaagtatct caatttcattg 180  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240  
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
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<210> 17815  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<210> 17815  
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 ttgttatctc aggttagcga tatttggtga tgagtgcact cgaatgaact ggattaactt 180  
 gtggaacaa aaaaaatgac ccggtacaca tatttcaaca attccatata atgattcaga 240  
 ctcaatatcc aaagaagatt acgaccttc actctgataa tgggtggggag tttgctaacc 300  
 accaattcca tgagtatttc gaaaaacacc gacttattca cgaatccacg tgtc 354

<210> 17816  
 <211> 151  
 <212> DNA  
 <213> Glycine max

<210> 17816  
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 aaacagatgg ttgactgaa cgaaccattc a 151

<210> 17817  
 <211> 348  
 <212> DNA  
 <213> Glycine max

